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(54) Title: AMIDE-CONTAINING COMPOUND HAVING IMPROVED SOLUBILITY AND METHOD OF IMPROVING THE SOLUBILITY OF AN AMIDE-CONTAINING COMPOUND

(57) Abstract: The present invention is directed to novel amide-containing compounds which have an improved solubility and a method of improving the solubility of amide-containing compounds. The amide-containing compounds include oxazolidinone compounds and the bioavailability of these oxazolidinone compounds is improved by improving the solubility thereof.

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AMIDE-CONTAINING COMPOUND HAVING IMPROVED SOLUBILITY
AND METHOD OF IMPROVING THE SOLUBILITY
OF AN AMIDE-CONTAINING COMPOUND

FIELD OF THE INVENTION

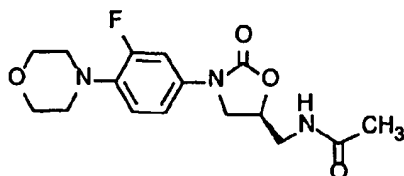
The present invention is directed to amide-containing compounds having an improved water solubility and a method for improving the water-solubility of amide-containing compounds in general and, specifically, to oxazolidinone compounds having improved water solubility and a method of improving the water-solubility of oxazolidinone compounds.

BACKGROUND OF THE INVENTION

There are many compounds that contain amide groups which have desirable pharmacological activity. For example, oxazolidinone derivatives containing an amide group are known to exhibit a variety of biological activities.

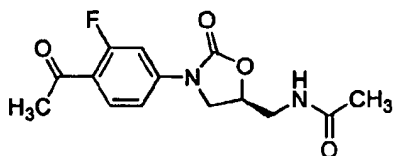
Oxazolidinone derivatives have been shown to be inhibitors of monoamine oxidase-B, an enzyme implicated in Parkinson's disease. Ding et al., *J. Med. Chem.* 36:3606-3610 (1993).

Scientists have reported that certain oxazolidinone derivatives exhibit beneficial antibacterial effects. For instance, N-[3-[3-fluoro-4-(morpholin-4-yl)phenyl]2-oxooxazolidin-5(s)-ylmethyl] acetamide (below) has been reported to be useful for the treatment of bacterial infections. Lizondo et al., *Drugs of the Future*, 21:1116-1123 (1996).

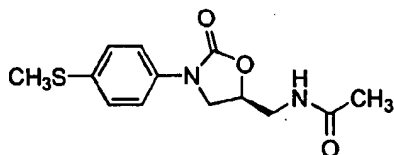


A ten step synthesis of oxazolidinone antibiotics has been described in U.S. Patent No. 5,547,950. A four step synthesis of the antibacterial compound U-100592 also has been reported. Schauss et al., *Tetrahedron Letters*, 37:7937-7940 (1996). A five step preparation of enantiomerically pure *cis*- and *trans*-N-(propionyl)hexahydrobenzoxazolidin-2-ones further was reported in De Parrodi et al., *Tetrahedron: Asymmetry*, 8:1075-1082 (1997).

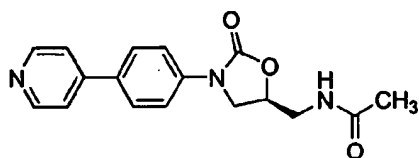
The synthesis of the oxazolidinone antibacterial agent shown below has been reported. Wang et al., *Tetrahedron*, 45:1323-1326 (1989). This oxazolidinone was made using a process that included the reaction of an aniline with glycidol to provide an amino alcohol, and the diethylcarbonate mediated cyclization of the amino alcohol to afford an oxazolidinone.



The synthesis of oxazolidinone antibacterial agents, including the compound shown below has been reported. U.S. Pat. No. 4,705,799. The process used to make the compound shown below included a metal mediated reduction of a sulfonyl chloride to provide a sulfide.



The synthesis of oxazolidinone antibacterial agents, including the pyridyl compound shown below has been reported. U.S. Patent No. 4,948,801. The process used included an organometallic mediated coupling of an organotin compound and an aryl iodide.



U.S. Patent 5,652,238 discloses carboxylic and phosphate esters of substituted-hydroxyacetyl piperazine phenyl oxazolidinones.

U.S. Patent 5,688,792 discloses substituted oxazine and thiazine oxazolidinone useful as antibacterials.

PCT International Publication WO 98/54161 discloses oxazolidinone antibacterial agents having a thiocarbonyl functionality.

U.S. Patent 5,968,962 and PCT International Publication WO 99/29688 discloses phenyloxazolidinones having a C-C bond to 4-8 membered heterocyclic rings.

U.S. Patent 5,952,324 discloses bicyclic oxazine and thiazine oxazolidinone useful as antibacterials.

PCT publications, WO 99/64416, WO 99/64417, and WO 00/21960 disclose oxazolidinone derivatives useful as antibacterial agents.

PCT Publication, WO 00/10566 discloses isoxazolinones useful as antibacterial agents.

U.S. Patent No. 5,880,118 discloses substituted oxazine and thiazine oxazolidinone antimicrobials.

U.S. Patent No. 6,968,962 discloses phenyloxazolidinones having a C-C bond to 4-8 membered heterocyclic rings.

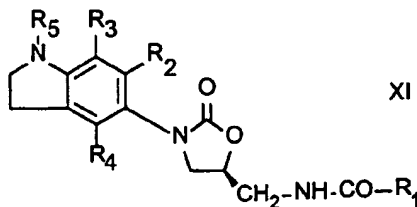
U.S. Patent No. 5,981,528 discloses antibiotic oxazolidinone derivatives.

U.S. Patent application Serial No. 60/236595 discloses N-((5S)-3-[4-(1,1-dioxido-4-thiomorpholinyl)-3,5-difluorophenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide.

PCT publications, WO 99/64416, WO 99/64417, and WO 00/21960 disclose isoxazolinone derivatives useful as antibacterial agents.

PCT publication, WO 00/10566 discloses isoxazolinones useful as antibacterial agents.

U.S. Patent No. 5,164,510 discloses 5'-indolinyloxazolidin-2-ones of formula XI



which are useful as antibacterial agents.

U.S. Patent Nos. 5,036,092; 5,036,093; 5,039,690; 5,032,605 and 4,965,268 disclose aminomethyl oxazolidinyl aza cycloalkylbenzene derivatives useful as antibacterial agents.

U.S. Patent Nos. 5,792,765 and 5,684,023 disclose substituted isoxazolinones useful as antibacterial agents.

International Publication No. WO 97/09328 discloses phenyloxazolidinones having a C-C bond to 4-8 membered heterocyclic rings useful as antimicrobial agents.

PCT International Publication WO 93/23384 discloses oxazolidinones containing a substituted diazine moiety and their use as antimicrobials.

PCT International Publication WO 95/07271 discloses substituted oxazine and thiazine oxazolidinones and their use as antimicrobials.

However, even though some amide-containing compounds have been shown to be extremely effective in the treatment of certain physiological disorders, some of these compounds have a low bioavailability due to their low water solubility and/or low permeability through biological barriers, such as the blood brain barrier and the intestinal barrier.

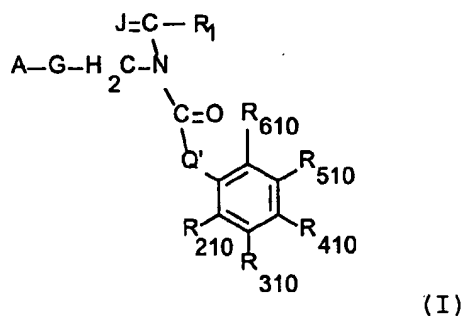
In order to increase the bioavailability of certain amines, peptides and peptidomimetics, prodrugs of these compounds, have been proposed. Zheng et al, *Tetrahedron Letters*, 55:4237-4254 (1999), Wang et al, *Journal of Controlled Release*, 65:245-251 (2000) and Wang et al, *Bioorganic & Medicinal Chemistry*, 6:417-426 (1998). These prodrugs derivatize certain polar functional groups transiently and bioreversibly to mask undesirable physical chemical characteristics of the groups without permanently altering the pharmacological properties of the molecules and have been used very successfully in cases where the prodrug derivatization involves converting a carboxyl or a hydroxyl functional group into an ester which can be readily hydrolyzed *in vivo* either chemically or enzymatically. However, this strategy has not been successfully used in the case of an amide group due to the chemical stability thereof.

As such, there is a need for amide-containing compounds having an improved water-solubility and

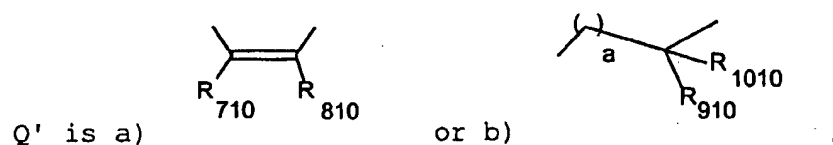
bioavailability and for methods for synthesizing these compounds.

SUMMARY OF THE INVENTION

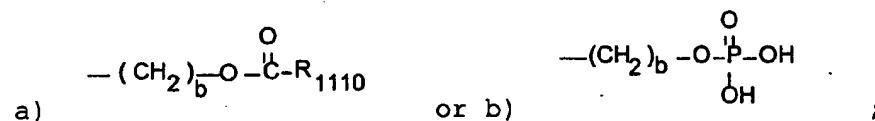
The objects of the present invention are met by providing an oxazolidinone derivative of Formula (I)



wherein J is O or S;



R₂₁₀ is



R₃₁₀, R₄₁₀ and R₅₁₀ each independently are

- a) H,
- b) C₁₋₄ alkyl,
- c) halogen,
- d) C₁₋₄ alkoxy,
- e) hydroxy,
- f) (CH₂)_cOP(O)(OH)₂,
- g) C₁₋₄ acyloxy, or
- h) C₁₋₄ alkyl substituted by halogen, hydroxy, acyloxy, NR₁₂₁₀R₁₃₁₀, or alkoxy;

R₆₁₀, R₇₁₀ and R₈₁₀ each independently are

- a) H,
- b) CH₃, or
- c) C₂H₅;

R₉₁₀ and R₁₀₁₀ each independently are

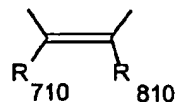
- a) H,
- b) CH₃,
- c) C₂H₅, or
- d) combine to form a C₃₋₅ cycloalkyl;

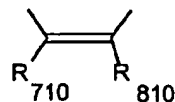
R₁₁₁₀ is H or C₁₋₆ alkyl;

R₁₂₁₀ and R₁₃₁₀ each independently are

- a) H,
- b) C₁₋₄ alkyl, or
- c) combine to form a heterocyclic ring;

wherein a is 0 or 1, b is 0 or 1, and c is 0 or 1, with

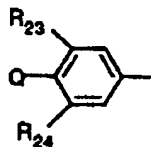


the proviso that when Q' is , b is 0 and a+b is 0 or 1;

R₁ is

- a) C₁₋₄ alkyl,
- b) C₂₋₄ alkenyl,
- c) OC₁₋₄ alkyl,
- d) C₃₋₆ cycloalkyl,
- e) C₁₋₄ alkyl substituted with 1-3F, 1-2Cl, CN, -COOC₁₋₄ alkyl or a C₃₋₆ cycloalkyl; or
- f) H

A is



R₄ is

- a) C₁₋₄ alkyl optionally substituted with one or more halos, OH, CN, NR₁₀R₁₁, or -CO₂R₁₃,
- b) C₂₋₄ alkenyl,
- c) -NR₁₆R₁₈,
- d) -N₃,
- e) -NHC(=O)R₇,
- f) -NR₂₀C(=O)R₇,
- g) -N(R₁₉)₂,
- h) -NR₁₆R₁₉, or
- i) -NR₁₉R₂₀,

R₅ and R₆ at each occurrence are the same or different and are

- a) C₁₋₂ alkyl, or
- b) R₅ and R₆ taken together are -(CH₂)_k-;

R₇ is C₁₋₄ alkyl optionally substituted with one or more halos;

R₁₀ and R₁₁ at each occurrence are the same or different and are

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₃ is

- a) H, or
- b) C₁₋₄ alkyl;

R₁₄ and R₁₅ at each occurrence are the same or different and are

- a) C₁₋₄ alkyl, or
- b) R₁₄ and R₁₅ taken together are -(CH)₁-;

R₁₆ is

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₇ is

- a) C₁₋₄ alkyl, or
- b) C₃₋₈ cycloalkyl;

R₁₈ is

- a) H,
- b) C₁₋₄ alkyl,
- c) C₂₋₄ alkenyl,
- d) C₃₋₄ cycloalkyl,
- e) -OR₁₃ or
- f) -NR₂₁R₂₂;

R₁₉ is

- a) Cl,
- b) Br, or
- c) I;

R₂₀ is a physiologically acceptable cation;

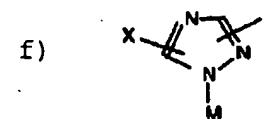
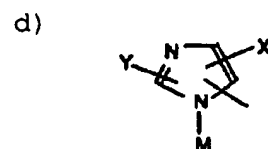
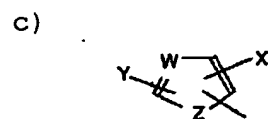
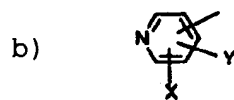
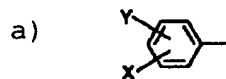
R₂₁ and R₂₂ at each occurrence are the same or different and are

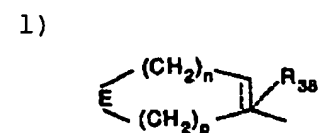
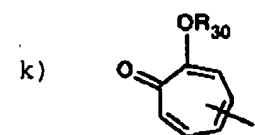
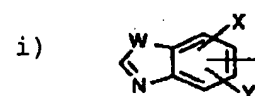
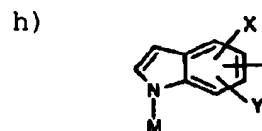
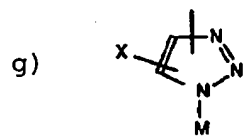
- a) H,
- b) C₁₋₄ alkyl, or
- c) -NR₂₁R₂₂ taken together are -(CH₂)_m-;

wherein R_{23} and R_{24} at each occurrence are the same or different and are

- a) H,
- b) F,
- c) Cl,
- d) C_{1-2} alkyl,
- e) CN
- f) OH,
- g) C_{1-2} alkoxy,
- h) nitro, or
- i) amino;

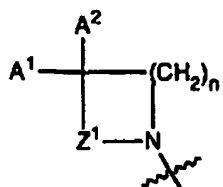
Q is



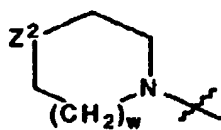


- m) a diazinyl group optionally substituted with X and Y,
- n) a triazinyl group optionally substituted with X and Y,
- o) a quinolinyl group optionally substituted with X and Y,
- p) a quinoxalinyl group optionally substituted with X and Y,
- q) a naphthyridinyl group optionally substituted with X and Y,

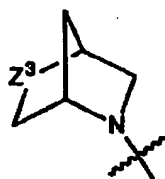
r)



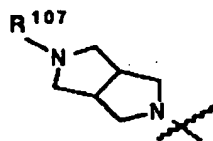
s)



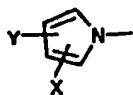
t)



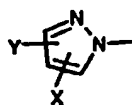
u)



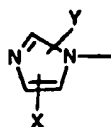
v)

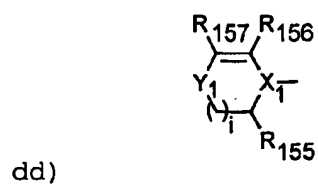
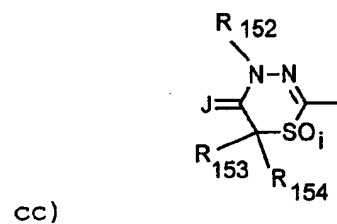
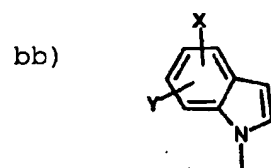
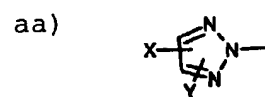
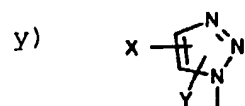


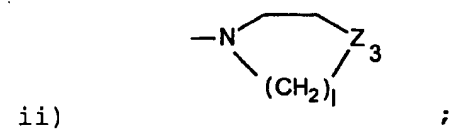
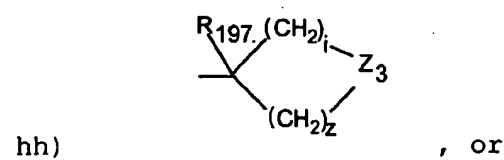
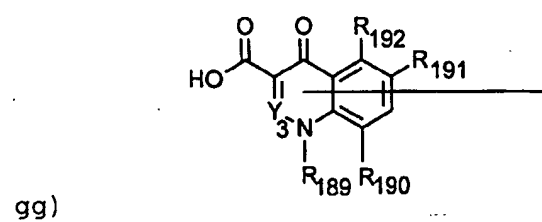
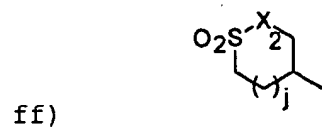
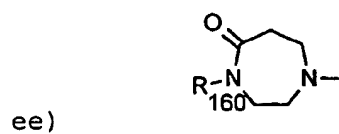
w)



x)

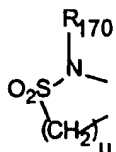
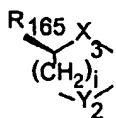




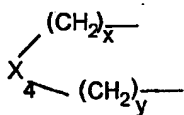


Q and R₂₄ taken together are





, or

wherein Z^1 is

- a) $-CH_2-$,
- b) $-CH(R^{104})-CH_2-$,
- c) $-C(O)-$, or
- d) $-CH_2CH_2CH_2-$;

wherein Z^2 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-N(R^{107})-$,
- d) $-OS-$,
- e) $-S-$, or
- f) $S(O)(NR_{190})$;


wherein Z^3 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-OS-$,
- d) $-S-$, or
- e) $S(O)(NR_{190})$

wherein A^1 is

- a) H-, or
- b) CH_3 ;

wherein A^2 is

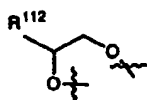
- a) H-,
- b) HO-,
- c) CH_3 -,
- d) CH_3O -,
- e) $R^{102}O-CH_2-C(O)-NH$ -
- f) $R^{103}O-C(O)-NH$ -,
- g) (C_1-C_2) alkyl- $O-C(O)$ -,
- h) $HO-CH_2$ -,
- i) CH_3O-NH -,
- j) (C_1-C_3) alkyl- O_2C -
- k) $CH_3-C(O)$ -,
- l) $CH_3-C(O)-CH_2$ -,
- m)  , or

n)



A^1 and A^2 taken together are:

a)



b)



c)



wherein R^{102} is

- a) H-,
- b) CH_3- ,
- c) phenyl- CH_2- , or
- d) $CH_3C(O)-$;

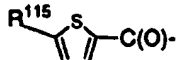
wherein R^{103} is

- a) (C_1-C_3) alkyl-, or
- b) phenyl-;

wherein R^{104} is

- a) H-, or
- b) HO-;

wherein R^{106} is

- a) $CH_3-C(O)-$,
- b) $H-C(O)-$,
- c) $Cl_2CH-C(O)-$,
- d) $HOCH_2-C(O)-$,
- e) CH_3SO_2- ,
- f) 

- g) $F_2CHC(O)-$,

- h) 

- i) $H_3C-C(O)-O-CH_2-C(O)-$,

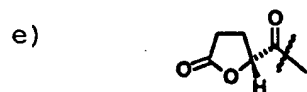
- j) $H-C(O)-O-CH_2-C(O)-$,

- k) 

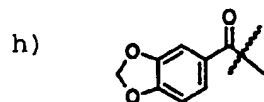
- l) $\text{HC}\equiv\text{C}-\text{CH}_2\text{O}-\text{CH}_2-\text{C}(\text{O})-$, or
 m) $\text{phenyl}-\text{CH}_2-\text{O}-\text{CH}_2-\text{C}(\text{O})-$;

wherein R^{107} is

- a) $\text{R}^{102}\text{O}-\text{C}(\text{R}^{110})(\text{R}^{111})-\text{C}(\text{O})-$,
 b) $\text{R}^{103}\text{O}-\text{C}(\text{O})-$,
 c) $\text{R}^{108}-\text{C}(\text{O})-$,



- f) $\text{H}_3\text{C}-\text{C}(\text{O})-(\text{CH}_2)_2-\text{C}(\text{O})-$,
 g) $\text{R}^{109}-\text{SO}_2-$,



- i) $\text{HO}-\text{CH}_2-\text{C}(\text{O})-$,
 j) $\text{R}^{116}-(\text{CH}_2)_2-$,
 k) $\text{R}^{113}-\text{C}(\text{O})-\text{O}-\text{CH}_2-\text{C}(\text{O})-$,
 l) $(\text{CH}_3)_2\text{N}-\text{CH}_2-\text{C}(\text{O})-\text{NH}-$,
 m) $\text{NC}-\text{CH}_2-$,
 n) $\text{F}_2-\text{CH}-\text{CH}_2-$, or
 o) $\text{R}^{150}\text{R}^{151}\text{NSO}_2$
 p) $\text{C}(\text{O})\text{CR}_{180}\text{R}_{180}\text{R}_{181}\text{OR}_{182}$,
 q) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})_i\text{CH}_3$,
 r) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})(\text{NR}_{183})\text{CH}_3$,
 s) $\text{C}(\text{S})\text{R}_{184}$,
 t) $\text{C}(\text{O})\text{CH}_2\text{OR}_{185}$,
 u) $\text{C}(\text{O})(\text{CH}_2)_j\text{C}(\text{O})\text{CH}_3$,
 v) $\text{C}(\text{O})(\text{CH}_2\text{OH})_2\text{CH}_3$,
 w) $\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{OR}_{189}$, or

x) -CN;

wherein R^{108} is

- a) H-,
- b) (C_1-C_4) alkyl,
- c) aryl $-(CH_2)_p$,
- d) ClH_2C- ,
- e) Cl_2HC- ,
- f) FH_2C- ,
- g) F_2HC- ,
- h) (C_3-C_6) cycloalkyl, or
- i) $CNCH_2-$.

wherein R^{109} is

- a) alkyl C_1-C_4 ,
- b) $-CH_2Cl$
- c) $-CH_2CH=CH_2$,
- d) aryl, or
- e) $-CH_2CN$;

wherein R^{110} and R^{111} are independently

- a) H-,
- b) CH_3- ; or

wherein R^{112} is

- a) H-,
- b) $CH_3O-CH_2O-CH_2-$, or
- c) $HOCH_2-$;

wherein R^{113} is

- a) CH_3- ,
- b) $HOCH_2-$,
- c) $(CH_3)_2N$ -phenyl, or
- d) $(CH_3)_2N-CH_2-$;

wherein R^{114} is

- a) HO-,
- b) CH₃O-,
- c) H₂N-,
- d) CH₃O-C(O)-O-,
- e) CH₃-C(O)-O-CH₂-C(O)-O-,
- f) phenyl-CH₂-O-CH₂-C(O)-O-,
- g) HO-(CH₂)₂-O-,
- h) CH₃O-CH₂-O-(CH₂)₂-O-, or
- i) CH₃O-CH₂-O-;

wherein R^{115} is

- a) H-, or
- b) Cl-;

wherein R^{116} is

- a) HO-
- b) CH₃O-, or
- c) F;

wherein R^{150} and R^{151} are each H or alkyl C₁-C₄ or R^{150} and R^{151} taken together with the nitrogen atom to which each is attached form a monocyclic heterocyclic ring having from 3 to 6 carbon atoms;

R_{152} is

- a) H,
- b) C₁₋₄alkyl,
- c) C₁₋₄heteroalkyl,
- d) (CH₂)_iC(=O)OC₁₋₄alkyl,
- e) (CH₂)_iC(=O)C₁₋₄alkyl,
- f) aryl, or
- g) het¹;

R_{153} and R_{154} are independently

- a) H,
- b) F,
- c) C₁₋₄alkyl,
- d) C₃₋₆cycloalkyl,
- e) C₁₋₄heteroalkyl,
- f) aryl,
- g) het¹,
- h) OC₁₋₄alkyl,
- i) O(C=O)C₁₋₄alkyl,
- j) (C=O)OC₁₋₄alkyl; or
- k) R₁₅₃ and R₁₅₄ taken together are C₃₋₆cycloalkyl;

R₁₅₅ is

- a) H,
- b) F,
- c) C₁₋₄alkyl,
- d) OC₁₋₄alkyl,
- e) SC₁₋₄alkyl, or
- f) NHC₁₋₄alkyl;

R₁₅₆ is

- a) H,
- b) C₁₋₄alkyl,
- c) OC₁₋₄alkyl,
- d) SC₁₋₄alkyl, or
- e) NHC₁₋₄alkyl;

R₁₅₇ is

- a) -H,
- b) -F,
- c) -Cl,
- d) -NH₂,
- e) -OH,
- f) -CN,
- g) -C₁₋₄alkyl,

- h) $-\text{OC}_{1-4}\text{alkyl}$,
- i) $-\text{C}_{1-4}\text{alkyl}-\text{W}-\text{C}_{1-4}\text{alkyl}$,
- j) $-\text{NHC}_{1-4}\text{alkyl}$,
- k) $-(\text{CH}_2)_1\text{C}_{3-6}\text{cycloalkyl}$,
- l) $-\text{C}(=\text{O})\text{C}_{1-4}\text{alkyl}$,
- m) $-\text{OC}(=\text{O})\text{C}_{1-4}\text{alkyl}$,
- n) $-\text{C}(=\text{O})\text{OC}_{1-4}\text{alkyl}$,
- o) $-\text{S}(\text{O})_1\text{C}_{1-4}\text{alkyl}$, or
- p) $-\text{C}(=\text{O})\text{NHC}_{1-4}\text{alkyl}$;

R₁₅₈ is

- a) $-\text{H}$,
- b) $-\text{CH}_3$,
- c) $-\text{F}$, or
- d) $-\text{OH}$;

R₁₅₉ is

- a) $-\text{H}$,
- b) $-\text{C}_{1-4}\text{alkyl}$,
- c) $-\text{C}(=\text{O})\text{C}_{1-4}\text{alkyl}$,
- d) $-\text{C}(=\text{O})\text{NHC}_{1-4}\text{alkyl}$,
- e) $-\text{OC}(=\text{O})\text{C}_{1-4}\text{alkyl}$,
- f) $-\text{C}(=\text{O})\text{OC}_{1-4}\text{alkyl}$, or
- g) $-\text{S}(\text{O})_1\text{C}_{1-4}\text{alkyl}$, or
- h) $-\text{C}_{1-4}\text{alkyl}-\text{W}_1-\text{C}_{1-4}\text{alkyl}$;

R₁₆₀ is H, C₂₋₆ alkenyl, C₂₋₇ alkynyl, C₁₋₆ alkyl substituted with one or two of the following:

- a) F,
- b) Cl,
- c) CF₃,
- d) $-\text{OH}$,
- e) C₁₋₄alkoxy,
- f) $-\text{CH}_2\text{C}(=\text{O})\text{C}_{1-4}\text{alkyl}$,
- g) $-\text{OC}(=\text{O})\text{N}(\text{R}_{161})_2$,

- h) C_{1-4} alkyl $S(O)_n$, (wherein n is 0, 1 or 2),
- i) -CN,
- j) carboxy,
- k) $-C_{1-4}$ alkoxycarbonyl,
- l) $-C(=O)N(R_{161})_2$,
- m) $-N(R_{161})SO_2C_{1-4}$ alkyl,
- n) $-N(R_{161})C(=O)C_{1-4}$ alkyl,
- o) $-N(R_{161})C(=O)N(R_4)_2$,
- p) $-N(R_{161})C(=O)C_{1-4}$ alkoxy,
- q) aryl, or
- r) Het₁;

R₁₆₁ is

- a) H, or
- b) C_{1-3} alkyl;

R₁₆₂ is

- a) H,
- b) C_{1-8} alkyl, optionally substituted with one to three F, Cl, OH, CN, NH₂, $OC(=O)C_{1-4}$ alkyl, or OC_{1-4} alkyl,
- c) C_{3-8} alkene, or
- d) $C(=O)NR_{163}R_{164}$;

R₁₆₃ and R₁₆₄ are independently

- a) H, or
- b) C_{1-8} alkyl, optionally substituted with one to three F, Cl, OH, CN, or NH₂;

R₁₆₅ is C_{1-4} alkyl, optionally substituted with 1-3 R₁₆₈;

R₁₆₆ is

- a) C_{1-8} alkyl, optionally substituted with 1-3 halo, CN, NO₂, OH, SH or NH₂,
- b) $-C(=O)R_{167}$ or

- c) $-\text{C}(=\text{S})\text{NHC}_{1-4}$ alkyl;

R_{167} is

- a) H,
 b) C_{1-6} alkyl, optionally substituted with OH, C_{1-4} alkoxy, NH_2 , SH or halo, or
 c) $-\text{CH}_2\text{OC}(=\text{O})\text{C}_{1-4}$ alkyl;

R_{168} is

- j) halo,
 k) $-\text{CN}$,
 l) $-\text{OH}$,
 m) $-\text{SH}$,
 n) $-\text{NH}_2$,
 o) $-\text{OR}_{169}$,
 p) $-\text{NHR}_{169}$,
 q) $-\text{N}(\text{R}_{169})_2$, or
 r) $-\text{S}(=\text{O})_i\text{R}_{169}$;

R_{169} is

- g) C_{1-6} alkyl,
 h) $-\text{C}(=\text{O})\text{C}_{1-4}$ alkyl,
 i) $-\text{C}(=\text{O})\text{O C}_{1-4}$ alkyl,
 j) $-\text{C}(=\text{O})\text{NH}_2$,
 k) $-\text{C}(=\text{O})\text{NH C}_{1-4}$ alkyl, or
 l) $-\text{SO}_2 \text{C}_{1-4}$ alkyl;

with the proviso that where j is 0, Y_2 is $-\text{CH}_2-$.

R_{170} is

- a) H,
 b) C_{1-12} alkyl, optionally substituted with phenyl or CN, or
 c) C_{2-12} alkyl substituted with OH, SH, NH_2 , $-\text{OC}_{1-6}$ alkyl, $-\text{NHC}_{1-6}$ alkyl, $-\text{NHCOC}_{1-6}$ alkyl, $-\text{NHSO}_2\text{C}_{1-6}$ alkyl, $-\text{S}(\text{O})_i\text{C}_{1-6}$ alkyl, or one to three halo;

R₁₇₂ is

- a) H,
- b) C₁₋₈ alkyl,
- c) aryl,
- d) het₁,
- e) C(=W)R₁₇₄,
- f) C(=O)OR₁₇₅, or
- g) S(=O)_iR₁₇₆;

R₁₇₃ is

- a) H, or
- b) C₁₋₈ alkyl;

R₁₇₄ is

- a) H,
- b) aryl,
- c) het₁,
- d) NR₁₇₇R₁₇₈, or
- e) C₁₋₈ alkyl;

R₁₇₅ is

- a) C₁₋₈ alkyl,
- b) aryl, or
- c) het₁;

R₁₇₆ is

- a) aryl,
- b) het₁,
- c) NR₁₇₇R₁₇₈, or
- d) C₁₋₈ alkyl;

R₁₇₇ and R₁₇₈ are independently

- a) H,
- b) C₁₋₈ alkyl, or
- c) aryl;

R₁₈₀ and R₁₈₁ taken together form C₃₋₅ cycloalkyl;

R₁₈₂ is H, CH₃ or C₁₋₄ alkanoyl;

R₁₈₃ is H, C₁₋₄ alkyl, C₁₋₄ alkanoyl, -C(=O)NH-C₁₋₄ alkyl or -CO₂C₁₋₄ alkyl;

R₁₈₄ is C₁₋₄ alkyl, CH₂OR₁₈₆, S-C₁₋₄ alkyl, OC₁₋₄ alkyl, or NR₁₈₇R₁₈₈;

R₁₈₅ is phenyl, -CO₂-(CH₂)₂-OCH₃, -P(=O)(OH)₂, -C(=O)-NR₁₈₇R₁₈₆, or -C(=O)-(CH₂)₂-CO₂H;

R₁₈₆ is H, phenyl, benzyl, CH₃ or C(=O)CH₃;

R₁₈₇ and R₁₈₈ are independently H or C₁₋₃ alkyl; or R₁₈₇ and R₁₈₈ taken together form a 5- or 6-membered saturated heterocycle, wherein said saturated heterocycle may further contain one or two additional hetero-atoms selected from a group consisting of O, S(O)_n or NR₁₈₂;

R₁₈₉ is H, CH₃ or benzyl;

R₁₉₀ is

- a) H,
- b) C₁₋₄ alkyl,
- c) C(=O)C₁₋₄ alkyl,
- d) C(=O)OC₁₋₄ alkyl,
- e) C(=O)NHR₁₉₁, or
- f) C(=S)NHR₁₉₁;

R₁₉₁ is H, C₁₋₄ alkyl, or phenyl;

at each occurrence, alkyl in R₁₉₀ and R₁₉₁ is optionally substituted with one or more halo, CN, NO₂, phenyl, C₃₋₆

cycloalkyl, OR_{192} , C(=O)R_{192} , OC(=O)R_{192} , C(=O)OR_{192} ,
 $\text{SC(=O)}_i\text{R}_{192}$, $\text{S(=O)}_i\text{NR}_{192}\text{R}_{192}$, $\text{NR}_{192}\text{R}_{192}$, $\text{NR}_{192}\text{SO}_2\text{R}_{192}$,
 $\text{NR}_{192}\text{SO}_2\text{R}_{192}\text{R}_{192}$, $\text{NR}_{192}\text{C(=O)R}_{192}$, $\text{C(=O)NR}_{192}\text{R}_{192}$, $\text{NR}_{192}\text{R}_{192}$, oxo or
 oxime;

R_{192} is H, C_{1-4} alkyl, or phenyl;

at each occurrence, phenyl in R_{191} and R_{192} is
 optionally substituted with one or more halo, CN,
 NO_2 , phenyl, C_{3-6} cycloalkyl, OR_{192} , C(=O)R_{192} ,
 OC(=O)R_{192} , C(=O)OR_{192} , $\text{S(=O)}_i\text{R}_{196}$, $\text{S(=O)}_i\text{NR}_{192}\text{R}_{192}$,
 $\text{NR}_{192}\text{SO}_2\text{R}_{192}$, $\text{NR}_{192}\text{SO}_2\text{NR}_{192}\text{R}_{192}$, $\text{NR}_{192}\text{C(=O)R}_{192}$,
 $\text{C(=O)NR}_{192}\text{R}_{192}$, or $\text{NR}_{192}\text{R}_{192}$;

R_{193} is selected from the group consisting of null, H,
 C_{1-4} alkyl, C_{3-5} cycloalkyl, C_{1-4} haloalkyl, and halophenyl;

R_{194} is selected from the group consisting of H, alkyl,
 C_{1-2} alkoxy, halo, and haloalkoxy, or R_{193} and R_{194} can be
 taken together to form a 5- or 6-membered, optionally
 substituted, heteroalkyl or heteroaryl ring;

R_{195} is H or F;

R_{196} is selected from the group consisting of H, methyl,
 amino, and F;

R_{197} is H, CH_3 , or F;

B is an unsaturated 4-atom linker having one nitrogen and
 three carbons;

M is

- a) H,
- b) C_{1-8} alkyl,
- c) C_{3-8} cycloalkyl,

- d) $-(\text{CH}_2)_m\text{OR}_{13}$, or
- e) $-(\text{CH}_2)_h\text{-NR}_{21}\text{R}_{22}$;

Z is

- a) O,
- b) S, or
- c) NM;

W is

- a) CH,
- b) N, or
- c) S or O when Z is NM;

Y is

- a) H,
- b) F,
- c) Cl,
- d) Br,
- e) C₁₋₃ alkyl, or
- f) NO₂;

X is

- a) H,
- b) -CN,
- c) OR₂₇,
- d) halo,
- e) NO₂,
- f) tetrazoyl,
- g) -SH,
- h) $-\text{S}(=\text{O})_i\text{R}_4$,
- i) $-\text{S}(=\text{O})_2\text{-N}=\text{S}(\text{O})_j\text{R}_5\text{R}_6$,
- j) $-\text{SC}(=\text{O})\text{R}_7$,
- k) $-\text{C}(=\text{O})\text{R}_{25}$,
- l) $-\text{C}(=\text{O})\text{NR}_{27}\text{R}_{28}$,
- m) $-\text{C}(=\text{NR}_{29})\text{R}_{25}$,

- n) $-C(R_{25})(R_{28})-OR_{13},$
- o) $-C(R_{25})(R_{28})-OC(=O)R_{13},$
- p) $-C(R_{28})(OR_{13})-(CH_2)_h-NR_{27}R_{28},$
- q) $-NR_{27}R_{28},$
- r) $-N(R_{27})C(=O)R_7,$
- s) $-N(R_{27})-S(=O)_iR_7,$
- t) $-C(OR_{14})(OR_{15})R_{28},$
- u) $-C(R_{25})(R_{16})-NR_{27}R_{26},$ or
- v) C_{1-8} alkyl substituted with one or more halos,
OH, =O other than at alpha position, $-S(=O)_iR_{17},$
 $-NR_{27}R_{28},$ C_{2-5} alkenyl, C_{2-5} alkynyl, or C_{3-8}
cycloalkyl;

X_1 is N or $CR_{158};$

Y_1 is

- a) $S(O)_i,$
- b) $S(NR_{159}),$ or
- c) $S(NR_{159})(O);$

W_1 is O or S;

X_2 is O or $NR_{162};$

X_3 is $S(O)_i$ or $NR_{166};$

Y_2 is

- a) O
- b) $NH,$
- c) $CH_2,$ or
- d) $S(O)_i;$

X_4 is

- a) O
- b) $NR_{172},$

- c) $S(O)_1$, or
- d) $S(O)(NR_{173})$; and

Y_3 is CH or N;

R_4 , R_5 , R_6 , R_7 , R_{13} , R_{14} , R_{15} , R_{16} , and R_{17} are the same as defined above;

R_{25} is

- a) H,
- b) C_{1-8} alkyl optionally substituted with one or more halos, C_{3-8} cycloalkyl, C_{1-4} alkyl substituted with one or more of $-S(=O)_1R_{17}$, $-OR_{13}$, or $OC(=O)R_{13}$, $NR_{27}R_{28}$, or
- c) C_{2-5} alkenyl optionally substituted with CHO, or CO_2R_{13} ;

R_{26} is

- a) R_{28} , or
- b) $NR_{27}NR_{28}$;

R_{27} and R_{28} at each occurrence are the same or different and are

- a) H,
- b) C_{1-8} alkyl,
- c) C_{3-8} cycloalkyl,
- d) $-(CH_2)_mOR_{13}$,
- e) $-(CH_2)_h-NR_{21}R_{22}$, or
- f) R_{27} and R_{28} taken together are $-(CH_2)_2O(CH_2)_2-$, $-(CH_2)_hCH(COR_7)-$, or $-(CH_2)_2N(CH_2)_2(R_7)$;

R_{29} is

- a) $-NR_{27}R_{28}$,
- b) $-OR_{27}$, or
- c) $-NHC(=O)R_{28}$;

wherein R_{30} is

- a) H,
- b) C_{1-8} alkyl optionally substituted with one or more halos, or
- c) C_{1-8} alkyl optionally substituted with one or more OH, or C_{1-6} alkoxy;

wherein E is

- a) NR_{39} ,
- b) $-S(=O)_i$,
- c) O, or
- d) $S(O)(NR_{190})$;

R_{38} is

- a) H,
- b) C_{1-6} alkyl,
- c) $-(CH_2)_q$ -aryl, or
- d) halo;

R_{39} is

- a) H,
- b) C_{1-6} alkyl optionally substituted with one or more OH, halo, or -CN,
- c) $-(CH_2)_q$ -aryl,
- d) $-CO_2R_{40}$,
- e) $-COR_{41}$,
- f) $-C(=O)-(CH_2)_q-C(=O)R_{40}$,
- g) $-S(=O)_2-C_{1-6}$ alkyl,
- h) $-S(=O)_2-(CH_2)_q$ -aryl, or
- i) $-(C=O)_j$ -Het;

R_{40} is

- a) H,
- b) C_{1-6} alkyl optionally substituted with one or

more OH, halo, or -CN,

- c) $-(CH_2)_q$ -aryl, or
- d) $-(CH_2)_q$ -OR₄₂;

R₄₁ is

- a) C₁₋₆ alkyl optionally substituted with one or more OH, halo, or -CN,
- b) $-(CH_2)_q$ -aryl, or
- c) $-(CH_2)_q$ -OR₄₂;

R₄₂ is

- a) H,
- b) C₁₋₆ alkyl,
- c) $-(CH_2)_q$ -aryl, or
- d) $-C(=O)$ -C₁₋₆ alkyl;

aryl is

- a) phenyl,
- b) pyridyl, or
- c) naphthyl; a to c optionally substituted with one or more halo, -CN, OH, SH, C₁₋₆ alkyl, C₁₋₆ alkoxy, or C₁₋₆ alkylthio;

h is 1, 2, or 3;

i is 0, 1, or 2;

j is 0 or 1, with the proviso that when j is 0, Y₂ is -CH₂-;

k is 3, 4, or 5;

l is 2 or 3;

m is 4 or 5;

n is 0, 1, 2, 3, 4, or 5;

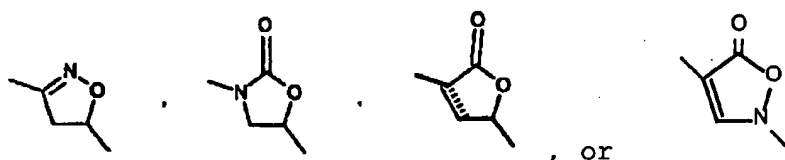
p is 0, 1, 2, 3, 4, or 5; with the proviso that n and p together are 1, 2, 3, 4, or 5;

q is 1, 2, 3, or 4;

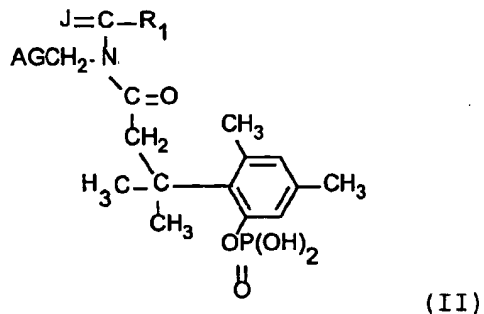
u is 1 or 2;

w is 0, 1, 2, or 3;
 x is 0, 1, 2, 3 or 4; and
 y is 0, 1, 2, 3 or 4; with the proviso that x and y taken together are 3 or 4;
 z is 1, 2, 3, 4 or 5, provided that i and z taken together are 2, 3, 4 or 5; and

G is

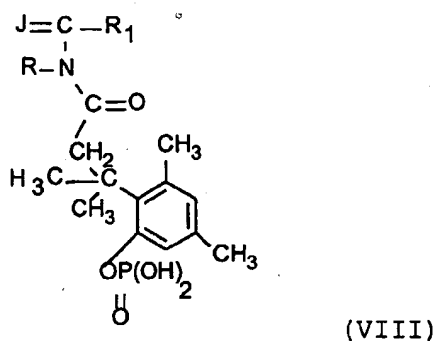


The present invention also provides an oxazolidinone derivative of Formula (II)

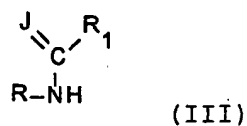


wherein J, R₁, G and A are as defined above.

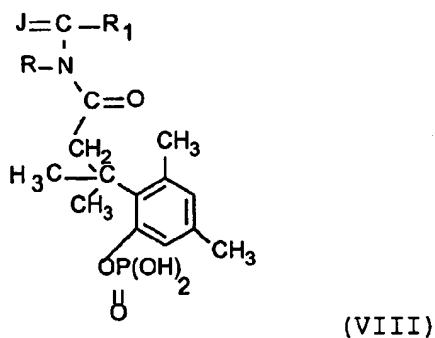
The present invention also is directed to an oxazolidinone derivative of formula (VIII) having an improved solubility, wherein R is -CH₂-G-A and R₁, G and A are as defined above.



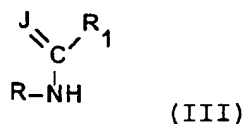
The present invention also is directed to a method of improving the solubility of an amide of Formula (III)



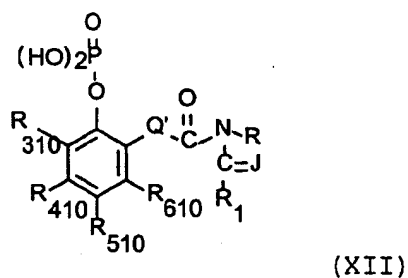
in which the compound of Formula (VIII) is prepared, wherein R is $-\text{CH}_2\text{-G-A}$ and R_1 , G and A are as defined above.



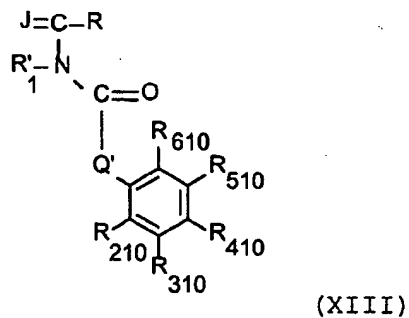
The present invention also is directed to a method of improving the solubility of an amide of Formula (III)



in which the compound of Formula (XII) is prepared,
 wherein R is $-\text{CH}_2-\text{G}-\text{A}$, with G, A, Q; R_{310} , R_{410} , R_{510} and R_{610}
 being as defined above.



The present invention is also directed to an
 oxazolidinone derivative of formula (XIII)



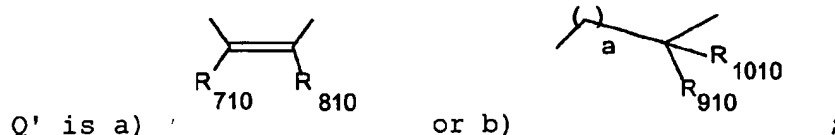
wherein R is $-\text{G}-\text{A}$;

J, G and A being as defined above;

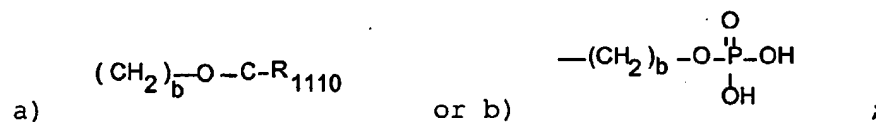
R_1' is

- a) H,
- b) OH,
- c) alkyl,
- d) alkoxy,
- e) alkenyl,
- f) amino,

- g) substituted alkyl,
- h) substituted alkoxy,
- i) substituted alkenyl, or
- j) substituted amino,



R₂₁₀ is



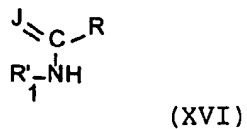
R₃₁₀, R₄₁₀ and R₅₁₀ each independently are

- a) H,
- b) C₁₋₄ alkyl,
- c) halogen,
- d) C₁₋₄ alkoxy,
- e) hydroxy,
- f) $(\text{CH}_2)_c\text{OP(O)(OH)}_2$,
- g) C₁₋₄ acyloxy, or
- h) C₁₋₄ alkyl substituted by halogen, hydroxy, acyloxy, NR₁₂₁₀R₁₃₁₀, or alkoxy; and

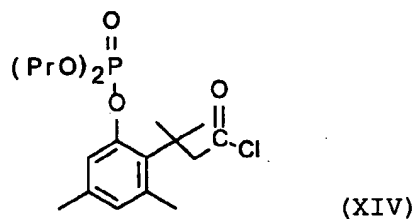
R₆₁₀ is

- a) H,
- b) CH₃, or
- c) C₂H₅.

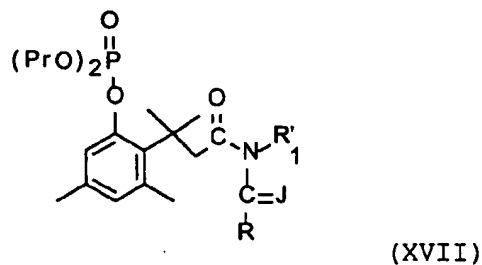
The present invention is also directed to a method of preparing an oxazolidinone derivative having an improved water solubility comprising the steps of providing an amide of formula (XVI)



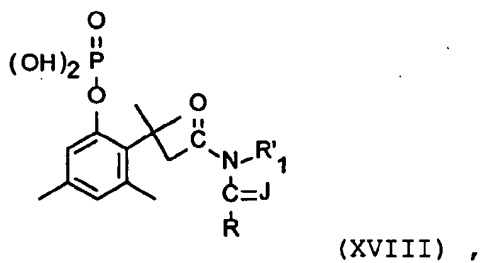
reacting the amide with a compound of formula (XIV)



to form a compound of formula (XVII)



and removing the protecting groups to form a compound of formula (XVIII)



wherein R is -G-A and J, R'₁, G, A and Pr are as described above.

DETAILED DESCRIPTION OF THE INVENTION

For the purpose of the present invention, the carbon content of various hydrocarbon containing moieties is indicated by a prefix designating the minimum and maximum number of carbon atoms in the moiety, i.e., the prefix C_{i-j} defines the number of carbon atoms present from the integer "i" to the integer "j", inclusive. Thus, C₁₋₄ alkyl refers to alkyl of 1-4 carbon atoms, inclusive, or methyl, ethyl, propyl, butyl and isomeric forms thereof.

The terms "C₁₋₂ alkyl", "C₁₋₃ alkyl", "C₁₋₄ alkyl", "C₁₋₅ alkyl", "C₁₋₆ alkyl", "C₁₋₈ alkyl", and "C₁₋₁₆ alkyl" refer to an alkyl group having one to two, one to three, one to four, one to five, one to six, one to eight, or one to sixteen carbon atoms respectively such as, for example, methyl, ethyl, propyl, butyl, pentyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl, dodecyl, tridecyl, tetradecyl and their isomeric forms thereof.

The terms "C₂₋₄ alkenyl", "C₂₋₅ alkenyl", "C₂₋₈ alkenyl", "C₂₋₁₄ alkenyl" and "C₂₋₁₆ alkenyl" refer to at least one double bond alkenyl group having two to four, two to five, two to eight, two to fourteen, or two to sixteen carbon atoms, respectively such as, for example, ethenyl, propenyl, butenyl, pentenyl, pentdienyl, hexenyl, hexdienyl, heptenyl, heptdienyl, octenyl, octdienyl, octatrienyl, nonenyl, nonedienyl, nonatrienyl, undecenyl, undecdienyl, dodecenyl, tridecenyl, tetradecenyl and their isomeric forms thereof.

The terms "C₂₋₅ alkynyl", "C₂₋₈ alkynyl", and "C₂₋₁₀ alkynyl" refer to at least one triple bond alkynyl group having two to five, two to eight, or two to ten carbon atoms respectively such as, for example, ethynyl, propynyl, butynyl, pentynyl, pentdiynyl, hexynyl,

hexdiynyl, heptynyl, heptdiynyl, octynyl, octdiynyl, octatriynyl, nonynyl, nonediynyl, nonatriynyl and their isomeric forms thereof.

The terms "C₃₋₄ cycloalkyl", "C₃₋₆ cycloalkyl", "C₅₋₆ cycloalkyl", and "C₃₋₈ cycloalkyl" refer to a cycloalkyl having three to four, three to six, five to six, or three to eight carbon atoms respectively such as, for example, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, cyclooctyl, and their isomeric forms thereof.

The terms "C₁₋₄ alkoxy", "C₁₋₆ alkoxy", and "C₁₋₈ alkoxy" refer to an alkyl group having one to four, one to six, or one to eight carbon atoms respectively attached to an oxygen atom such as, for example, methoxy, ethoxy, propyloxy, butyloxy, pentyloxy, hexyloxy, heptyloxy, or octyloxy and their isomeric forms thereof.

The terms "C₁₋₆ alkylamino", and "C₁₋₈ alkylamino" refer to an alkyl group having one to six, or one to eight carbon atoms respectively attached to an amino moiety such as, for example, methylamino, ethylamino, propylamino, butylamino, pentylamino, hexylamino, heptylamino, or octoylamino and their isomeric forms thereof.

The terms "C₁₋₆ dialkylamino", and "C₁₋₈ dialkylamino" refer to two alkyl groups having one to six, or one to eight carbon atoms respectively attached to an amino moiety such as, for example, dimethylamino, methylethylamino, diethylamino, dipropylamino, methypropylamino, ethylpropylamino, dibutylamino, dipentylamino, dihexylamino, methylheptylamino, diheptylamino, or dioctoylamino and their isomeric forms thereof.

The terms "C₁₋₃ acyl", "C₁₋₄ acyl", "C₁₋₅ acyl", "C₁₋₆ acyl", "C₁₋₈ acyl", and "C₂₋₈ acyl" refer to a carbonyl group having an alkyl group of one to three, one to four, one to five, one to six, one to eight, or two to eight carbon atoms.

The terms "C₁₋₄ alkoxy carbonyl", "C₁₋₆ alkoxy carbonyl", and "C₁₋₈ alkoxy carbonyl" refer to an ester group having an alkyl group of one to four, one to six, or one to eight carbon atoms.

The term "C₁₋₈ alkyl phenyl" refers to an alkyl group having one to eight carbon atoms and isomeric forms thereof which is substituted with at least one phenyl radical.

The term "C₂₋₈ alkenyl phenyl" refers to a at least one double bond alkenyl group having one to eight carbon atoms and isomeric forms thereof which is substituted with at least one phenyl radical.

The term "C₁₋₈ alkyl pyridyl" refers to an alkyl group having one to eight carbon atoms and isomeric forms thereof which is substituted with at least one pyridyl radical.

The term "C₁₋₈ hydroxyl" refers to an alkyl group having one to eight carbon atoms and isomeric forms thereof attached to a hydroxy group.

The term "C₁₋₈ alkylsulfonyl" refers to an alkyl group having one to eight carbon atoms and isomeric forms thereof attached to a SO₂ moiety.

The term "C₁₋₆ alkylthio" refers to an alkyl group having one to six carbon atoms and isomeric forms thereof attached to a sulfur atom.

The term "Het" refers to 5 to 10 membered saturated, unsaturated or aromatic heterocyclic rings containing one

or more oxygen, nitrogen, and sulfur forming such groups as, for example, pyridine, thiophene, furan, pyrazoline, pyrimidine, 2-pyridyl, 3-pyridyl, 4-pyridyl, 2-pyrimidinyl, 4-pyrimidinyl, 5-pyrimidinyl, 3-pyridazinyl, 4-pyridazinyl, 3-pyrazinyl, 2-quinolyl, 3-quinolyl, 1-isoquinolyl, 3-isoquinolyl, 4-isoquinolyl, 2-quinazolinyl, 4-quinazolinyl, 2-quinoxaliny, 1-phthalazinyl, 4-oxo-2-imidazolyl, 2-imidazolyl, 4-imidazolyl, 3-isoxazolyl, 4-isoxazolyl, 5-isoxazolyl, 3-pyrazolyl, 4-pyrazolyl, 5-pyrazolyl, 2-oxazolyl, 4-oxazolyl, 4-oxo-2-oxazolyl, 5-oxazolyl, 4,5,-dihydrooxazole, 1,2,3-oxathiole, 1,2,3-oxadiazole, 1,2,4-oxadiazole, 1,2,5-oxadiazole, 1,3,4-oxadiazole, 2-thiazolyl, 4-thiazolyl, 5-thiazolyl, 3-isothiazole, 4-isothiazole, 5-isothiazole, 2-indolyl, 3-indolyl, 3-indazolyl, 2-benzoxazolyl, 2-benzothiazolyl, 2-benzimidazolyl, 2-benzofuranyl, 3-benzofuranyl, benzoisothiazole, benzisoxazole, 2-furanyl, 3-furanyl, 2-thienyl, 3-thienyl, 2-pyrrolyl, 3-pyrrolyl, 3-isopyrrolyl, 4-isopyrrolyl, 5-isopyrrolyl, 1,2,3,-oxathiazole-1-oxide, 1,2,4-oxadiazol-3-yl, 1,2,4-oxadiazol-5-yl, 5-oxo-1,2,4-oxadiazol-3-yl, 1,2,4-thiadiazol-3-yl, 1,2,4-thiadiazol-5-yl, 3-oxo-1,2,4-thiadiazol-5-yl, 1,3,4-thiadiazol-5-yl, 2-oxo-1,3,4-thiadiazol-5-yl, 1,2,4-triazol-3-yl, 1,2,4-triazol-5-yl, 1,2,3,4-tetrazol-5-yl, 5-oxazolyl, 1-pyrrolyl, 1-pyrazolyl, 1,2,3-triazol-1-yl, 1,2,4-triazol-1-yl, 1-tetrazolyl, 1-indolyl, 1-indazolyl, 2-isoindolyl, 7-oxo-2-isoindolyl, 1-purinyl, 3-isothiazolyl, 4-isothiazolyl and 5-isothiazolyl, 1,3,4,-oxadiazole, 4-oxo-2-thiazolinyl, or 5-methyl-1,3,4-thiadiazol-2-yl,

thiazoledione, 1,2,3,4-thiatriazole, 1,2,4-dithiazolone. Each of these moieties may be substituted as appropriate.

The term het^1 at each occurrence is independently a C-linked 5- or 6-membered heterocyclic ring having 1 to 4 heteroatoms selected from the group consisting of oxygen, nitrogen, and sulfur within the ring.

The term het^2 at each occurrence is independently a N-linked 5- or 6-membered heterocyclic ring having 1 to 4 nitrogen and optionally having one oxygen or sulfur within the ring.

The term Het_1 is a 5- or 6-membered heteroaromatic moiety having 1-3 N, O or S atoms, optionally substituted with the following:

- a) F,
- b) Cl,
- c) C_{1-3} alkoxy,
- d) C_{1-3} alkylthio, or
- e) CN.

The term het_1 is a C-linked 5- or 6-membered saturated or unsaturated heterocyclic ring having 1, 2, or 3 heteroatoms selected from the group consisting of oxygen, sulfur, and nitrogen, which is optionally fused to a benzene ring.

The term halo refers to fluoro, chloro, bromo, or iodo.

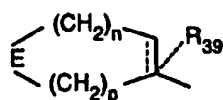
The term Pr refers to a suitable phosphate protecting group, such as benzyl, alkyl, tert-butyl, etc.

The compounds of the present invention can be converted to their salts, where appropriate, according to conventional methods.

The term "pharmaceutically acceptable salts" refers to acid addition salts useful for administering the

compounds of this invention and include hydrochloride, hydrobromide, hydroiodide, sulfate, phosphate, acetate, propionate, lactate, mesylate, maleate, malate, succinate, tartrate, citric acid, 2-hydroxyethyl sulfonate, fumarate and the like. These salts may be in hydrated form.

When Q is the structure of



the dotted line in the heterocyclic ring means that this bond can be either single or double. In the case where the dotted line is a double bond, the R_{39} group will not be present.

The compounds of this invention contain a chiral center at C5 of the isoxazoline ring, and as such there exist two enantiomers or a racemic mixture of both. This invention relates to both the enantiomers, as well as mixtures containing both the isomers. In addition, depending on substituents, additional chiral centers and other isomeric forms may be present in any of A or R_1 group, and this invention embraces all possible stereoisomers and geometric forms in these groups.

The compounds of this invention are useful for treatment of microbial infections in humans and other warm blooded animals, under both parenteral and oral administration. The inventive compounds have antibacterial activity against a number of human and veterinary pathogens including Gram-positive aerobic bacteria such as multiply-resistant staphylococci, streptococci and enterococci, Gram-negative organisms such as *H. influenzae* and *M. catarrhalis*, anaerobic

organisms such as *Bacteroides spp.* and *Clostridasppa*, *Mycobacterium tuberculosis*, *M. avium* and *M. spp.* and organisms such as *Mycoplasma spp.*

The pharmaceutical compositions of this invention may be prepared by combining the compounds of this invention with a solid or liquid pharmaceutically acceptable carrier and, optionally, with pharmaceutically acceptable adjuvants and excipients employing standard and conventional techniques. Solid form compositions include powders, tablets, dispersible granules, capsules, cachets and suppositories. A solid carrier can be at least one substance which may also function as a diluent, flavoring agent, solubilizer, lubricant, suspending agent, binder, tablet disintegrating agent, and encapsulating agent. Inert solid carriers include magnesium carbonate, magnesium stearate, talc, sugar, lactose, pectin, dextrin, starch, gelatin, cellulosic materials, low melting wax, cocoa butter, and the like. Liquid form compositions include solutions, suspensions and emulsions. For example, there may be provided solutions of the compounds of this invention dissolved in water and water-propylene glycol and water-polyethylene glycol systems, optionally containing suitable conventional coloring agents, flavoring agents, stabilizers and thickening agents.

Preferably, the pharmaceutical composition is provided employing conventional techniques in unit dosage form containing effective or appropriate amounts of the active component, that is, the compound according to this invention.

The quantity of active component, that is the compound according to this invention, in the

pharmaceutical composition and unit dosage form thereof may be varied or adjusted widely depending upon the particular application, the potency of the particular compound, the desired concentration. Generally, the quantity of active component will range between 0.5% to 90% by weight of the composition.

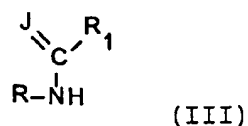
In therapeutic use for treating, or combatting, bacterial infections in warm-blooded animals, the compounds or pharmaceutical compositions thereof will be administered orally, parenterally and/or topically at a dosage to obtain and maintain a concentration, that is, an amount, or blood-level of active component in the animal undergoing treatment which will be antibacterially effective. Generally, such antibacterially effective amount of dosage of active component will be in the range of about 0.1 to about 100, more preferably about 3.0 to about 50 mg/kg of body weight/day. It is to be understood that the dosages may vary depending upon the requirements of the patient, the severity of the bacterial infection being treated, and the particular compound being used. Also, it is to be understood that the initial dosage administered may be increased beyond the above upper level in order to rapidly achieve the desired blood-level or the initial dosage may be smaller than the optimum and the daily dosage may be progressively increased during the course of treatment depending on the particular situation. If desired, the daily dose may also be divided into multiple doses for administration, e.g., 2-4 four times per day.

When the compounds according to this invention are administered parenterally, i.e., by injection, for example, by intravenous injection or by other parenteral

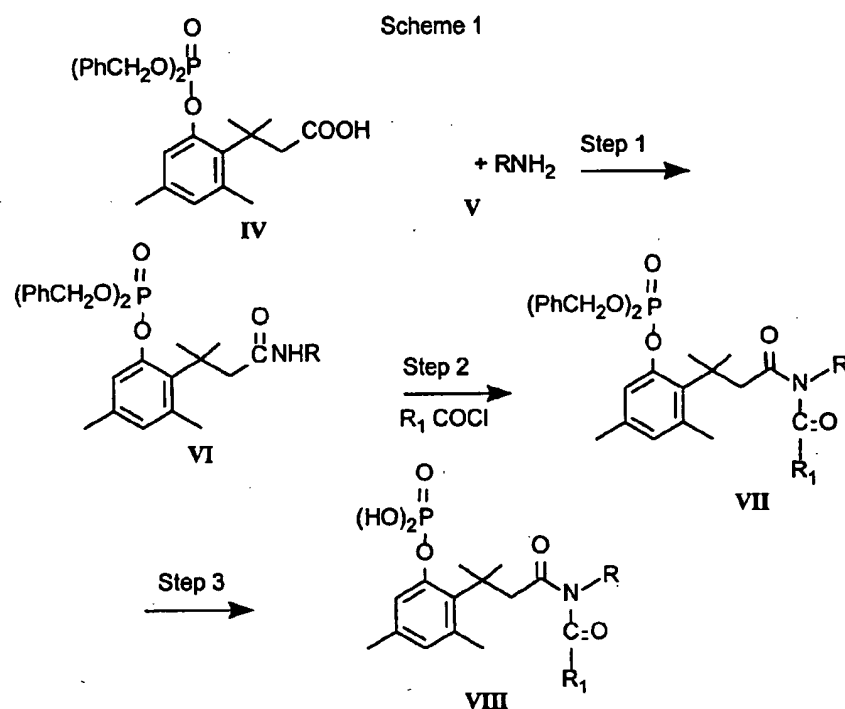
routes of administration. Pharmaceutical compositions for parenteral administration will generally contain a pharmaceutically acceptable amount of the compound or a soluble salt (acid addition salt or base salt) dissolved in a pharmaceutically acceptable liquid carrier such as, for example, water-for-injection and a buffer to provide a suitably buffered isotonic solution, for example, having a pH of about 3.5-6. Suitable buffering agents include, for example, trisodium orthophosphate, sodium bicarbonate, sodium citrate, N-methylglucamine, L(+)-lysine and L(+)-arginine to name but a few representative buffering agents. The compound of this invention generally will be dissolved in the carrier in an amount sufficient to provide a pharmaceutically acceptable injectable concentration in the range of about 1 mg/mL to about 400 mg/mL of solution. The resulting liquid pharmaceutical composition will be administered so as to obtain the above-mentioned antibacterially effective amount of dosage. The compounds according to this invention are advantageously administered orally in solid and liquid dosage forms.

As a topical treatment an effective amount of Formula I is admixed in a pharmaceutically acceptable gel or cream vehicle that can be applied to the patient's skin at the area of treatment. Preparation of such creams and gels is well known in the art and can include penetration enhancers.

The present invention improves the solubility and bioavailability of an amide of Formula III



by converting it into a prodrug of Formula (VIII). The general scheme for preparing the prodrug of Formula (VIII) is shown below in Schemes 1 and 2.



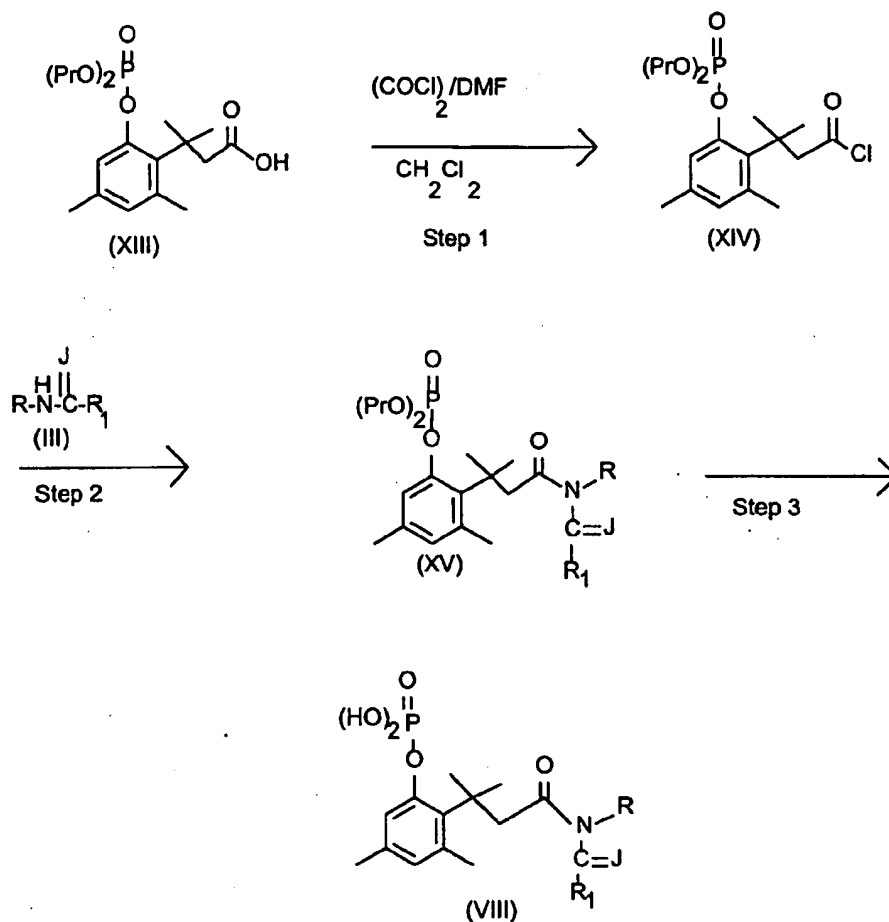
In the above reaction scheme, the carboxylic acid derivative of Formula IV is prepared as described in M.G. Nicolaou, C.-S. Yuan and R.T. Borchardt, *J. Med. Chem.* 1996, 61, 8636-8641. Condensation of the amine of Formula V with the carboxylic acid of IV is accomplished by methods known in the art for amide or peptide bond formation. Examples include 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride and 4-(dimethylamino)-pyridine and solvents such as methylene chloride at reaction temperatures of 0 to 24°C, 1-(3-dimethylamino-

propyl)-3-ethylcarbodiimide hydrochloride and 1-hydroxybenzotriazole and solvents such as dimethylformamide at 0 to 24°C, and bis(2-oxo-3-oxazolidinyl)phosphinic chloride and triethylamine and solvents such as methylene chloride at 0 to 24°C.

In Step 2 of Scheme 1, the amide of VI undergoes an acylation reaction to give the compound of VII, wherein J is an oxygen atom. This reaction is conveniently carried out by allowing the compound of VI to react with an acid chloride in the presence of an efficient acid scavenger. Solvents such as methylene chloride, ethylene chloride or carbon tetrachloride at a temperature of from 24°C to the reflux temperature of the solvent can be used. Acid scavengers such as 3 Å units molecular sieves, propylene oxide, 1,8-bis(dimethylamino)naphthalene and methyl trimethylsilylcarbamate are suitable for use in this reaction. In Step 3 of Scheme 1, the phosphate esters of Formula VII are deprotected. This can be carried out by hydrogenolysis at atmospheric pressure and ambient temperature with a palladium catalyst. Solvents such as tetrahydrofuran, diethylether, or 1,2-dimethoxyethane can be used for this reaction.

Alternatively, compounds of formula (VIII) can be prepared according to the following Scheme 2. In Scheme 2, P_r of formula (XIII) represents a suitable phosphate protecting group, such as benzyl, alkyl or tert-butyl.

Scheme 2



In Step 1, the acid (XIII) is converted to the acid chloride (XIV) with, for example, oxalyl chloride and dimethylformamide in a solvent, such as methylene chloride, at temperatures of from 0 to 30°C. In Step 2, the compound of formula (XIV) is allowed to react with the compound of formula (III) in a solvent, such as methylene chloride, ethylene chloride or acetonitrile, in the presence of an efficient acid scavenger, such as methyl trimethylsilylcarbamate, at the reflux temperature of the solvent. In Step 3, the phosphate protecting

groups of the compound of formula (XV) is removed by methods known in the art.

Examples of amides containing oxazolidinone groups that can be used in the present invention are shown below. The preparation of the following amides of Examples 1-434 are shown in United States Patent No. 6,362,189 B1, the disclosure of which is herein incorporated by reference thereto.

TABLE A

EXAMPLE 1: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide (I)

EXAMPLE 2: (S)-N-[[3-[3-Fluoro-4-[4-(5-methyl-1,3,4-thiadiazol-2-yl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide (2)

EXAMPLE 3: (S)-N-[[3-[3-Fluoro-4-[2',5' - dioxospiro[piperidine-4,4' -imidazolidine]-1-yl]phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide (3).

EXAMPLE 4: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide (4).

EXAMPLE 5: (S)-cis-N-[[3-[3-Fluoro-4-(tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]ethanethioamide

EXAMPLE 6: (S)-trans-N-[[3-[3-Fluoro-4-(tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]ethanethioamide

EXAMPLE 7: (S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,1-dioxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]ethanethioamide

EXAMPLE 8: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-thioformamide (7).

EXAMPLE 9: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thiopropion-amide (9).

EXAMPLE 10: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-chlorothioacetamide (11).

EXAMPLE 11: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]- α , α , α -trifluorothioacetamide (13).

EXAMPLE 12: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]- α -fluorothioacetamide (15).

EXAMPLE 13: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]- α , α -difluorothioacetamide (17).

EXAMPLE 14: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]- α -cyanothioacetamide (19).

EXAMPLE 15: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]- α , α -dichlorothioacetamide (21).

EXAMPLE 16: (S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]- α -(methoxycarbonyl)thioacetamide (23).

EXAMPLE 17: (S)-N-[[3-[4-[1-[1,2,4]Triazolyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide (25).

EXAMPLE 18: (S)-N-[[3-[4-[1-[1,2,4]Triazolyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide (25).

EXAMPLE 19: (S)-N-[[3-[1-(Hydroxyacetyl)-5-indolinyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide (28).

EXAMPLE 20: (S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide (30).

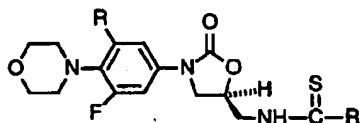
EXAMPLE 21: (S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide (32).

EXAMPLE 22: (S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide, thiomorpholine S-oxide (34).

EXAMPLE 23: (S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide, thiomorpholine S, S-dioxide (36).

EXAMPLE 24: (S)-N-[[3-[3,5-Difluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide (38).

TABLE B



<u>Example No.</u>	<u>Compound</u>	<u>R, R'</u>
25	(S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide; mp 152-153 °C (dec.); Anal. calcd for C ₁₈ H ₂₄ FN ₃ O ₃ S: C,	R = H, R' = CH(CH ₃) ₂

56.67; H, 6.34; N, 11.02.

Found: C, 56.58;

H, 6.41; N, 10.81

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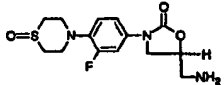
(S)-N-[[3-[3-Fluoro-4-(4-morpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-

cyclopropane-carbothioamide;
mp 155-156 °C; Anal. calcd
for C₁₈H₂₂FN₃O₃S: C, 56.98; H,
5.84; N, 11.07. Found: C,
56.98; H, 5.85; N, 10.97

27

(S)-N-[[3-[3,5-Difluoro-4-(4-morpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide

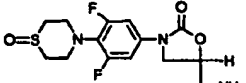
R = F, R' = CH₃TABLE C

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
28	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide, thiomorpholine S-oxide; mp 196-197°C; Anal. calcd for C ₁₇ H ₂₂ FN ₃ O ₃ S ₂ : C, 51.11; H, 5.55; N, 10.52; S, 16.05. Found: C, 50.99; H, 5.60; N, 10.55; S, 15.75		Z (a)

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
29	<p>S)-N-[[3-[3-Fluor o-4-(4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl]meth yl]-2- methylpropanethio -amide, thiomorpholine S-oxide; mp 195-196°C; Anal. calcd for C₁₈H₂₄FN₃O₃S₂: C, 52.28; H, 5.85; N, 10.16; S, 15.51. Found: C, 52.24; H, 5.97; N, 10.16; S, 15.28</p>	Same as above	Z (b)
30	<p>(S)-N-[[3-[3-Fluo ro-4- (4-thiomorpholiny l)- phenyl]-2-oxo-5- oxazolidinyl]meth yl]- cyclopropanecarbo thio- amide, thiomorpholine S-oxide; mp 109-110°C; Anal. calcd for C₁₈H₂₂FN₃O₃S₂: C, 52.54; H, 5.39; N, 10.21; S, 15.58. Found: C, 52.48; H, 5.51; N, 10.28; S, 15.29</p>	Same as above	Z (c)

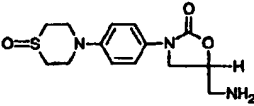
<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
31	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]butanethioamide, thiomorpholine S-oxide	Same as above	Z (d)
32	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-3-methylbutanethioamide, thiomorpholine S-oxide	Same as above	Z (e)
33	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylbutanethioamide, thiomorpholine S-oxide	Same as above	Z (f)
34	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]	Same as above	Z (g)

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
	yl] 3,3-dimethylbutan ethio- amide, thiomorpholine S-oxide		
35	(S)-N-[[3-[3-Fluo ro-4- (4-thiomorpholiny l) phenyl]-2-oxo-5 oxazolidinyl]meth yl] cyclobutanecarbot hio- amide, thiomorpholine S-oxide	Same as above	Z (h)
36	(S)-N-[[3-[3-Fluo ro-4- (4-thiomorpholiny l) phenyl]-2-oxo-5 oxazolidinyl]meth yl]-1- cyclopentanecarbo thio- amide, thiomorpholine S-oxide	Same as above	Z (i)
37	(S)-N-[[3-[3-Fluo ro-4- (4-thiomorpholiny l)phenyl]-2-oxo-5 oxazolidinyl]meth yl] cyclohexanecarbot hio- amide, thiomorpholine S-oxide	Same as above	Z (j)

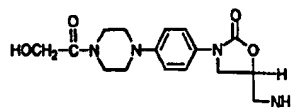
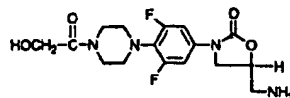
<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
38	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopropylethane thioamide, thiomorpholine S-oxide	Same as above	Z (k)
39	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclobutylethanethioamide, thiomorpholine S-oxide	Same as above	Z (l)
40	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopentylethane thioamide, thiomorpholine S-oxide	Same as above	Z (m)
41	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl		Ethyl dithioacetate

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
	1)- phenyl]-2-oxo-5 oxazolidinyl]meth yl]- thioacetamide, thiomorpholine S-oxide		
42	(S)-N-[[3-[3-Fluo ro-4- (4-thiomorpholiny l)- phenyl]-2-oxo-5 oxazolidinyl]meth yl]- propanethioamide, thiomorpholine S-oxide	Same as above	Z (a)
43	(S)-N-[[3-[3-Difl uoro- 4- (4-thiomorpholiny l)- phenyl]-2-oxo-5- oxazolidinyl]meth yl]-2- methylpropanethio - amide, thiomorpholine S-oxide	Same as above	Z (b)
44	(S)-N-[[3-[3-Difl uoro- 4- (4-thiomorpholiny l)- phenyl]-2-oxo-5- oxazolidinyl]meth yl]-	Same as above	Z (c)

cyclopropanecarbo
thio-
amide,
thiomorpholine
S-oxide

- | | | | |
|----|--|--|--------------------------------|
| 45 | <p>(S)-N-[[3-[4-(4
thiomorpholinyl)-
phenyl]-2-oxo-5-
oxazolidinyl]meth
yl]-
thioacetamide,
thiomorpholine
S-oxide</p> |  | <p>Ethyl
dithioacetate</p> |
| 46 | <p>(S)-N-[[3-[4-(4
thiomorpholinyl)-
phenyl]-2-oxo-5-
oxazolidinyl]meth
yl]-
propanethioamide,
thiomorpholine
S-oxide</p> | <p>Same as
above</p> | <p>Z (a)</p> |
| 47 | <p>(S)-N-[[3-[4-(4
thiomorpholinyl)-
phenyl]-2-oxo-5-
oxazolidinyl]meth
yl]-2-
methylpropanethio
-
amide,
thiomorpholine
S-oxide</p> | <p>Same as
above</p> | <p>Z (b)</p> |
| 48 | <p>(S)-N-[[3-[4-(4
thiomorpholinyl)-
phenyl]-2-oxo-5-
oxazolidinyl]meth
yl]-
cyclopropanecarbo
thio-
amide,
thiomorpholine
S-oxide</p> | <p>Same as
above</p> | <p>Z (c)</p> |

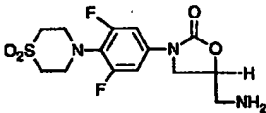
- 49 (S)-N-[[3-[3,5-Difluoro-4-(4-hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]-methyl]propanethioamide Z (a)
- 50 (S)-N-[[3-[3,5-Difluoro-4-(4-hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]-methyl]-2-methylpropanethioamide Same as above Z (b)
- 51 (S)-N-[[3-[3,5-Difluoro-4-(4-hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]-methyl]cyclopropanethioamide Same as above Z (c)
- 52 (S)-N-[[3-[3-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]-methyl]propanethioamide Z (a)
- 53 (S)-N-[[3-[3-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]-methyl]propanethioamide Same as above Z (b)

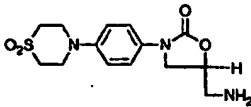


	1- piperazinyl]phenyl-2- oxo-5- oxazolidinyl]- methyl]-2-methyl- propanethioamide		
54	(S)-N-[[3-[3-[4 (hydroxyacetyl)- 1- piperazinyl]phenyl-2- oxo-5- oxazolidinyl]- methyl]cyclopropa- ne- carbothioamide	Same as above	Z (c)

TABLE D

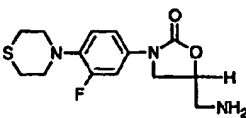
<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound (from Preparation Z)</u>
55	(S)-N-[[3-[3- Fluoro-4- (4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl]meth- yl]- propanethioamide, thiomorpholine S,S- dioxide		Z (a)
56	(S)-N-[[3-[3- Fluoro-4- (4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl]meth- yl]-2- methylpropanethio- -	Same as above	Z (b)

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound (from Preparation Z)</u>
	amide, thiomorpholine S,S-dioxide		
57	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbo- thio- amide, thiomorpholine S,S-dioxide	Same as above	Z (c)
58	(S)-N-[[3-[3,5-Difluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]-methyl]thioacetamide, thiomorpholine S,S-dioxide		
59	(S)-N-[[3-[3,5-Difluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide, thiomorpholine S,S-dioxide	Same as above	Z (a)

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
60	(S)-N-[[3-[3,5-Difluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethio- - amide, thiomorpholine S,S-dioxide	Same as above	Z (b)
61	(S)-N-[[3-[3,5-Difluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropanecarbo- thio- amide, thiomorpholine S,S-dioxide	Same as above	Z (c)
62	(S)-N-[[3-[4-(4-thio- morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]-methyl]thioacetamide, thiomorpholine S,S-dioxide		Ethyl dithioacetate
63	(S)-N-[[3-[4-(4-thio- morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]-methyl]propanethi-	Same as above	Z (a)

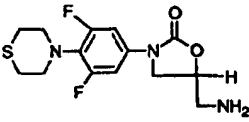
<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
	o- amide, thiomorpholine S,S-dioxide		
64	(S)-N-[[3-[4-(4-thio-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]-methyl]-2-methyl-propanethioamide, thiomorpholine S,S-dioxide	Same as above	Z (b)
65	(S)-N-[[3-[4-(4-thio-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]-methyl]cyclopropane-carbothioamide, thiomorpholine S,S-dioxide	Same as above	Z (c)

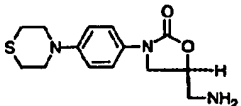
TABLE E

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
66	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide		Z (a)

67	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	Same as above	Z (b)
68	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	Same as above	Z (c)
69	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]butanethioamide	Same as above	Z (d)
70	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-3-methylbutanethioamide	Same as above	Z (e)
71	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-	Same as above	Z (f)

	oxazolidinyl]meth yl]-2- methylbutanethioa mide		
72	(S)-N-[[3-[3- Fluoro-4- (4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl]meth yl]- 3,3- dimethylbutaneth io- amide	Same as above	Z (g)
73	(S)-N-[[3-[3- Fluoro-4- (4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl]meth yl]- cyclobutanecarbot hio- amide	Same as above	Z (h)
74	(S)-N-[[3-[3- Fluoro-4- (4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl]meth yl]- cyclopentanecarbo thio- amide	Same as above	Z (i)
75	(S)-N-[[3-[3- Fluoro-4- (4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl]meth yl]- cyclohexanecarbot	Same as above	Z (j)

	hio- amide		
76	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopropylethane thio- amide	Same as above	Z (k)
77	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclobutylethane thio- amide	Same as above	Z (l)
78	(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopentylethane thio- amide	Same as above	Z (m)
79	(S)-N-[[3-[3,5-Difluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl] thioacetamide		Ethyl dithioacetate
80	(S)-N-[[3-[3,5-	Same as	Z (a)

	Difluoro- 4-(4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl)meth yl] propanethioamide	above	
81	(S)-N-[[3-[3,5- Difluoro- 4-(4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl)meth yl]-2- methylpropanethio amide	Same as above	Z (b)
82	(S)-N-[[3-[3,5- Difluoro- 4-(4- thiomorpholinyl)- phenyl]-2-oxo-5- oxazolidinyl)meth yl] cyclopropanecarbo thio-amide	Same as above	Z (c)
83	(S)-N-[[3-[4-(4- thio- morpholinyl)pheny l]-2-oxo-5- oxazolidinyl]- methyl]thioacetam ide		
84	(S)-N-[[3-[4-(4- thio- morpholinyl)pheny l]-2-oxo-5- oxazolidinyl]- methyl]propanethi o- amide	Same as above	Z (a)
85	(S)-N-[[3-[4-(4- thio-	Same as above	Z (b)

morpholinyl)phenyl
 1]-2-oxo-5-oxazolidinyl]-
 methyl]-2-methyl-
 propanethioamide

86	(S)-N-[[3-[4-(4-thio- morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]- methyl]cyclopropane-carbothioamide	Same as above	Z (c)
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EXAMPLE 87:

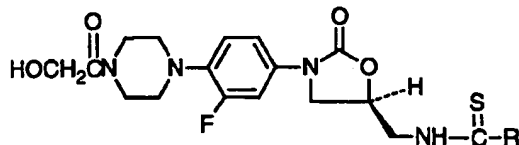
(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-1-azetidinecarbothioamide, thiomorpholine S-oxide; Anal. Calcd for $C_{18}H_{23}FN_4O_3S_2$, C, 50.69; H, 5.43; N, 13.14. Found: C, 50.79; H, 5.45; N, 12.82; mp 213-214°C.

EXAMPLE 88:




(S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-1-azetidinecarbothioamide.






EXAMPLE 89:

(S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide

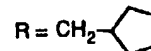
TABLE F

<u>Example No.</u>	<u>Compound</u>
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<u>Example No.</u>	<u>Compound</u>	
90	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxy-acetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropane-thioamide; Anal. calcd for C ₂₀ H ₂₇ FN ₄ O ₄ S: C, 54.78; H, 6.21; N, 12.78; S, 7.31. Found: C, 54.67; H, 6.34; N, 12.41; S, 7.15	R = CH(CH ₃) ₂
91	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxy-acetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropane-carbothioamide; mp 179-181°C; Anal. calcd for C ₂₀ H ₂₅ FN ₄ O ₄ S: C, 55.03; H, 5.77; N, 12.84; S, 7.34. Found: C, 55.15; H, 5.72; N, 12.76; S, 7.09	R = 
92	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxy-acetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]butane thioamide	R = CH ₂ -CH ₂ -CH ₃
93	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxy-acetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-3-methylbutane-thioamide	R = CH ₂ -  -CH ₃
94	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxy-acetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylbutane-	R =  -CH ₂ -CH ₃

<u>Example No.</u>	<u>Compound</u>	
	thioamide	
95	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-3,3-dimethylbutanethioamide	$R = \text{CH}_2\text{-C}(\text{CH}_3)_3$
96	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclobutane-carbothioamide	$R = $ 
97	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopentane-carbothioamide	$R = $ 
98	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclohexane-carbothioamide	$R = $ 
99	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopropyl-ethanethioamide	$R = \text{CH}_2$ 
100	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]	$R = \text{CH}_2$ 

<u>Example No.</u>	<u>Compound</u>
] -2-oxo-5-oxazolidinyl)methyl]-2-cyclobutyl ethanethioamide
101	(S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-cyclopentylethanethioamide



EXAMPLE 102:

(S)-N-[[3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-azetidinecarbothioamide.

EXAMPLE 103:

(S)-N-[[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide

TABLE G

<u>Example No.</u>	<u>Product</u>	<u>Amine</u>	<u>Dithio Compound</u>
104	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide; mp 161-162°C; Anal. calcd for C ₁₉ H ₂₅ FN ₄ O ₃ S: C, 55.87; H, 6.17; N, 13.72; S, 7.85. Found: C, 55.79; H, 6.26; N, 13.60; S, 7.71	P-90	Z (a)
105	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide	P-90	Z (b)

<u>Example</u>			<u>Dithio</u>
<u>No.</u>	<u>Product</u>	<u>Amine</u>	<u>Compound</u>
106	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclopropanecarbo- thioamide; mp 159-160°C; Anal. calcd for C ₂₀ H ₂₅ FN ₄ O ₃ S: C, 57.13; H, 5.99; N, 13.32; S, 7.62. Found: C, 57.05; H, 6.01; N, 13.15; S, 7.45.	P-90	Z (c)
107	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]butanethioamide	P-90	Z (d)
108	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-3-methylbutanethioamide	P-90	Z (e)
109	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylbutane-thioamide	P-90	Z (f)
110	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-3,3-dimethylbutane-thioamide	P-90	Z (g)
111	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclobutanecarbo-thioamide	P-90	Z (h)
112	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclopentanecarbo-thioamide	P-90	Z (i)
113	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclohexanecarbo-thioamide	P-90	Z (j)
114	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclohexanecarbo-thioamide	P-90	Z (k)

<u>Example</u> <u>No.</u>	<u>Product</u>	<u>Amine</u>	<u>Dithio</u> <u>Compound</u>
	yl)methyl]-2-cyclopropylethane-thioamide		
115	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-cyclobutylethane-thioamide	P-90	Z (l)
116	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-cyclopentylethane-thioamide	P-90	Z (m)
117	(S)-N-[[3-[3,5-Difluoro-4-(4-acetyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide	P-91	Ethyl dithioacetate
118	(S)-N-[[3-[3,5-Difluoro-4-(4-acetyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl)methyl]propane-thioamide	P-91	Z (a)
119	(S)-N-[[3-[3,5-Difluoro-4-(4-acetyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methyl-propanethioamide	P-91	Z (b)
120	(S)-N-[[3-[3,5-Difluoro-4-(4-acetyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclopropane-carbothioamide	P-91	Z (c)
121	(S)-N-[[3-[4-(4-Acetyl-1-piperazinyl)-2-oxo-5-oxazolidinyl)methyl]thioacetamide	P-92	Ethyl dithioacetate
122	(S)-N-[[3-[4-(4-Acetyl-1-piperazinyl)-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-92	Z (a)

<u>Example</u> <u>No.</u>	<u>Product</u>	<u>Amine</u>	<u>Dithio</u> <u>Compound</u>
123	(S)-N-[[3-[4-(4-Acetyl-1-piperazinyl)-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-92	Z (b)
124	(S)-N-[[3-[4-(4-Acetyl-1-piperazinyl)-2-oxo-5-oxazolidinyl]methyl]cyclopropanecarbothioamide	P-92	Z (c)
125	(S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-93	Ethyl dithioacetate
126	(S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-93	Z (a)
127	(S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-93	Z (b)
128	(S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-methylpropanethioamide	P-93	Z (c)
129	(S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-butanethioamide	P-93	Z (d)
130	(S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-	P-93	Z (e)

- (methoxyacetyl)-1-
piperazinyl]phenyl]-2-oxo-5-
oxazolidinyl)methyl]-3-
methylbutanethioamide
- 131 (S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-
piperazinyl]phenyl]-2-oxo-5-
oxazolidinyl)methyl]-2-
methylbutanethioamide P-93 Z (f)
- 132 (S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-
piperazinyl]phenyl]-2-oxo-5-oxazolid
inyl)methyl]-3,3-
dimethylbutanethioamide P-93 Z (g)
- 133 (S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-
piperazinyl]phenyl]-2-oxo-5-oxazolid
inyl)methyl]-
cyclobutanecarbothioamide P-93 Z (h)
- 134 (S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-
piperazinyl]phenyl]-2-oxo-5-oxazolid
inyl)methyl]-
cyclopentanecarbothioamide P-93 Z (i)
- 135 (S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-
piperazinyl]phenyl]-2-oxo-5-oxazolid
inyl)methyl]-
cyclohexanecarbothioamide P-93 Z (j)
- 136 (S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-
piperazinyl]phenyl]-2-oxo-5-oxazolid
inyl)methyl]-2-
cyclopropylethanethioamide P-93 Z (k)
- 137 (S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-
cyclobutylethanethioamide P-93 Z (l)

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| 138 | (S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopentylethanethioamide | P-93 | Z (m) |
| 139 | (S)-N-[[3-[3,5-Difluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide | P-94 | Ethyl dithioacetate |
| 140 | (S)-N-[[3-[3,5-Difluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide | P-94 | Z (a) |
| 141 | (S)-N-[[3-[3,5-Difluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide | P-94 | Z (b) |
| 142 | (S)-N-[[3-[3,5-Difluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide | P-94 | Z (c) |
| 143 | (S)-N-[[3-[4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide | P-95 | Ethyl dithioacetate |
| 144 | (S)-N-[[3-[4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide | P-95 | Z (a) |
| 145 | (S)-N-[[3-[4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropane-thioamide | P-95 | Z (b) |
| 146 | (S)-N-[[3-[4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropanecarbothioamide | P-95 | Z (c) |

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| 147 | (S)-N-[[3-[3-Fluoro-4-[4-(cyanoacetyl)-1-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide | P-96 | Ethyl dithioacetate |
| 148 | (S)-N-[[3-[3-Fluoro-4-[4-(cyanoacetyl)-1-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide | P-96 | Z (a) |
| 149 | (S)-N-[[3-[3-Fluoro-4-[4-(cyanoacetyl)-1-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methyl-propanethioamide | P-96 | Z (a) |
| 150 | (S)-N-[[3-[3-Fluoro-4-[4-(cyanoacetyl)-1-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropane-carbothioamide | P-96 | Z (b) |
| 151 | (S)-N-[[3-[3,5-Difluoro-4-[4-(cyanoacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide | P-97 | Ethyl dithioacetate |
| 152 | (S)-N-[[3-[3,5-Difluoro-4-[4-(cyanoacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide | P-97 | Z (a) |
| 153 | (S)-N-[[3-[3,5-Difluoro-4-[4-(cyanoacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide | P-97 | Z (b) |
| 154 | (S)-N-[[3-[3,5-Difluoro-4-[4-(cyanoacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropanecarbothioamide | P-97 | Z (c) |
| 155 | (S)-N-[[3-[4-[4-(Cyanoacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide | P-98 | Ethyl dithioacetate |

	azinyl]phenyl]-2-oxo-5-oxazolidinyl]m ethyl]thioacetamide		dithio- acetate
156	(S)-N-[[3-[4-[4-(Cyanoacetyl)-1-piper azinyl]phenyl]-2-oxo-5-oxazolidinyl]m ethyl]propanethioamide	P-98	Z (a)
157	(S)-N-[[3-[4-[4-(Cyanoacetyl)-1-piper azinyl]phenyl]-2-oxo-5-oxazolidinyl]m ethyl]-2-methylpropanethioamide	P-98	Z (b)
158	(S)-N-[[3-[4-[4-(Cyanoacetyl)-1-piper azinyl]phenyl]-2-oxo-5-oxazolidinyl]m ethyl]cycopropanecarbothioamide	P-98	Z (c)
159	(S)-N-[[3-[3-Fluoro-4-[4-(acetoxycet yl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]- thioacetamide	P-99	Ethyl dithio- acetate
160	(S)-N-[[3-[3-Fluoro-4-[4-(acetoxycet yl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]-propanethioamide	P-99	Z (a)
161	(S)-N-[[3-[3-Fluoro-4-[4-(acetoxycet yl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]-2-methylpropanethioamide	P-99	Z (b)
162	(S)-N-[[3-[3-Fluoro-4-[4-(acetoxycet yl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]- cyclopropanecarbothioamide	P-99	Z (c)
163	(S)-N-[[3-[3-Fluoro-4-[4-(acetoxycet yl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]-butanethioamide	P-99	Z (d)
164	(S)-N-[[3-[3-Fluoro-4-[4-(acetoxycet yl)-1-piperazinyl]phenyl]-2-oxo-5-oxa	P-99	Z (e)

- zolidinyl)methyl]-3-methylbutanethioamide
- 165 (S)-N-[[3-[3-Fluoro-4-[4-(acetoxycetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylbutanethioamide P-99 Z (f)
- 166 (S)-N-[[3-[3-Fluoro-4-[4-(acetoxycetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-3,3-dimethylbutanethioamide P-99 Z (g)
- 167 (S)-N-[[3-[3-Fluoro-4-[4-(acetoxycetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclobutanecarbothioamide P-99 Z (h)
- 168 (S)-N-[[3-[3-Fluoro-4-[4-(acetoxycetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclopentanecarbothioamide P-99 Z (i)
- 169 (S)-N-[[3-[3-Fluoro-4-[4-(acetoxycetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclohexanecarbothioamide P-99 Z (j)
- 170 (S)-N-[[3-[3-Fluoro-4-[4-(acetoxycetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-cyclopropylethanethioamide P-99 Z (k)
- 171 (S)-N-[[3-[3-Fluoro-4-[4-(acetoxycetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-cyclobutylethanethioamide P-99 Z (l)
- 172 (S)-N-[[3-[3-Fluoro-4-[4-(acetoxycetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-cyclobutylethanethioamide P-99 Z (m)

	nyl)methyl]-2- cyclopentylethanethioamide			
173	(S)-N-[[3-[3,5-Difluoro-4-[4-(acetoxy acetyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl)methyl]- thioacetamide	P- 100		Ethyl dithio- acetate
174	(S)-N-[[3-[3,5-Difluoro-4-[4-(acetoxy acetyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl)methyl]-propanethioamide	P- 100		Z (a)
175	(S)-N-[[3-[3,5-Difluoro-4-[4-(acetoxy acetyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl)methyl]-2- methylpropanethioamide	P- 100		Z (b)
176	(S)-N-[[3-[3,5-Difluoro-4-[4-(acetoxy acetyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl)methyl]- cyclopropanecarbothioamide	P- 100		Z (c)
177	(S)-N-[[3-[4-[4-(Acetoxyacetyl)-1-pip erazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P- 100		Ethyl dithio- acetate
178	(S)-N-[[3-[4-[4-(Acetoxyacetyl)-1-pip erazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide	P- 101		Z (a)
179	(S)-N-[[3-[4-[4-(Acetoxyacetyl)-1-pip erazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropane-thioamide	P- 101		Z (b)
180	(S)-N-[[3-[4-[4-(Acetoxyacetyl)-1-pip erazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropanecarbo-thioamide	P- 101		Z (c)
181	(S)-N-[[3-[3-Fluoro-4-[4-(benzyloxyac etyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl)methyl]-	P- 102		Ethyl dithio- acetate

thioacetamide

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| 182 | (S)-N-[[3-[3-Fluoro-4-[4-(benzyloxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide | P-102 | Z (a) |
| 183 | (S)-N-[[3-[3-Fluoro-4-[4-(benzyloxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide | P-102 | Z (b) |
| 184 | (S)-N-[[3-[3-Fluoro-4-[4-(benzyloxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide | P-102 | Z (c) |
| 185 | (S)-N-[[3-[3,5-Difluoro-4-[4-(benzyloxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide | P-103 | Ethyl dithioacetate |
| 186 | (S)-N-[[3-[3,5-Difluoro-4-[4-(benzyloxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide | P-103 | Z (a) |
| 187 | (S)-N-[[3-[3,5-Difluoro-4-[4-(benzyloxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide | P-103 | Z (b) |
| 188 | (S)-N-[[3-[3,5-Difluoro-4-[4-(benzyloxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide | P-103 | Z (c) |
| 189 | (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide | P-105 | Ethyl dithioacetate |

- 190 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide P-105 Z (a)
- 191 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide P-105 Z (b)
- 192 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide P-105 Z (c)
- 193 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-butanethioamide P-105 Z (d)
- 194 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-3-methylbutanethioamide P-105 Z (e)
- 195 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylbutanethioamide P-105 Z (f)
- 196 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-3,3-dimethylbutanethioamide P-105 Z (g)
- 197 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclobutanecarbothioamide P-105 Z (h)
- 198 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopentanecarbothioamide P-105 Z (i)

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| 199 | (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclohexanecarbothioamide | P-105 | Z (j) |
| 200 | (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopropylethanethioamide | P-105 | Z (k) |
| 201 | (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclobutylethanethioamide | P-105 | Z (l) |
| 202 | (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopentylethanethioamide | P-105 | Z (m) |
| 203 | (S)-N-[[3-[3,5-Difluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide | P-106 | Ethyl dithioacetate |
| 204 | (S)-N-[[3-[3,5-Difluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide | P-106 | Z (a) |
| 205 | (S)-N-[[3-[3,5-Difluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide | P-106 | Z (b) |
| 206 | (S)-N-[[3-[3,5-Difluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide | P-106 | Z (c) |

207	(S)-N-[[3-[4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-107	Ethyl dithioacetate
208	(S)-N-[[3-[4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-107	Z (a)
209	(S)-N-[[3-[4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-107	Z (b)
210	(S)-N-[[3-[4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-107	Z (c)
211	(S)-N-[[3-[3-Fluoro-4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide; mp 197-198°C; Anal. calcd for C ₁₇ H ₂₃ FN ₄ O ₄ S ₂ : C, 47.43; H, 5.39; N, 13.01; S, 14.89. Found: C, 47.25; H, 5.40; N, 12.82; S, 14.56.	P-108	Ethyl dithioacetate
212	(S)-N-[[3-[3-Fluoro-4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide; mp 207-208°C; Anal. calcd for C ₁₈ H ₂₅ FN ₄ O ₄ S ₂ : C, 48.63; H, 5.67; N, 12.60; S, 14.42. Found: C, 48.51; H, 5.59; N, 12.52; S, 14.09.	P-108	Z (a)
213	(S)-N-[[3-[3-Fluoro-4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide; mp 204-206°C; Anal. calcd for C ₁₉ H ₂₇ FN ₄ O ₄ S ₂ : C, 49.76; H, 5.93; N, 12.22; S, 13.98. Found: C, 49.63; H, 5.92; N, 14.14; S, 13.91.	P-108	Z (b)

- 214 (S)-N-[[3-[3-Fluoro-4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclopropanecarbothioamide; Anal. calcd for $C_{19}H_{25}FN_4O_4S_2$: C, 49.98; H, 5.52; N, 12.27; S, 14.04. Found: C, 49.42; H, 5.50; N, 12.08; S, 13.80. P- 108 Z (a)
- 215 (S)-N-[[3-[3,5-Difluoro-4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-thioacetamide P- 109 Ethyl dithioacetate
- 216 (S)-N-[[3-[3,5-Difluoro-4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-propanethioamide
- 217 (S)-N-[[3-[3,5-Difluoro-4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide
- 218 (S)-N-[[3-[3,5-Difluoro-4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclopropanecarbothioamide
- 219 (S)-N-[[3-[4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-thioacetamide
- 220 (S)-N-[[3-[4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-propanethioamide
- 221 (S)-N-[[3-[4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide

- 222 (S)-N-[[3-[4-[4-(methanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclopropanecarbothioamide
- 223 (S)-N-[[3-[3-Fluoro-4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-thioacetamide
- 224 (S)-N-[[3-[3-Fluoro-4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-propanethioamide
- 225 (S)-N-[[3-[3-Fluoro-4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide P-111
- 226 (S)-N-[[3-[3-Fluoro-4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclopropanecarbothioamide P-111
- 227 (S)-N-[[3-[3,5-Difluoro-4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-thioacetamide P-112
- 228 (S)-N-[[3-[3,5-Difluoro-4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-propanethioamide P-112
- 229 (S)-N-[[3-[3,5-Difluoro-4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide P-112

230	(S)-N-[[3-[3,5-Difluoro-4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-112	
231	(S)-N-[[3-[4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P-113	
232	(S)-N-[[3-[4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide	P-113	
233	(S)-N-[[3-[4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropane-thioamide	P-113	
234	(S)-N-[[3-[4-[4-(ethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropanecarbothioamide	P-113	Z (c)
235	(S)-N-[[3-[3-Fluoro-4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-114	Ethyl dithioacetate
236	(S)-N-[[3-[3-Fluoro-4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-114	Z (a)
237	(S)-N-[[3-[3-Fluoro-4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-114	Z (b)
238	(S)-N-[[3-[3-Fluoro-4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-114	Z (c)

239	(S)-N-[[3-[3,5-Difluoro-4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-115	Ethyl dithioacetate
240	(S)-N-[[3-[3,5-Difluoro-4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide	P-115	Z (a)
241	(S)-N-[[3-[3,5-Difluoro-4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-115	Z (b)
242	(S)-N-[[3-[3,5-Difluoro-4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-115	Z (c)
243	(S)-N-[[3-[4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-116	Ethyl dithioacetate
244	(S)-N-[[3-[4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-116	Z (a)
245	(S)-N-[[3-[4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-116	Z (b)
246	(S)-N-[[3-[4-[4-(chloromethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-116	Z (c)

247	(S)-N-[[3-[3-Fluoro-4-[4-(cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P-117	Ethyl dithioacetate
248	(S)-N-[[3-[3-Fluoro-4-[4-(cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-117	Z (a)
249	(S)-N-[[3-[3-Fluoro-4-[4-(cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-117	Z (b)
250	(S)-N-[[3-[3-Fluoro-4-[4-(cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-117	Z (c)
251	(S)-N-[[3-[3,5-Difluoro-4-[4-(cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide		Ethyl dithioacetate
252	(S)-N-[[3-[3,5-Difluoro-4-[4-(cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide	P-118	Z (a)
253	(S)-N-[[3-[3,5-Difluoro-4-[4-(cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-118	Z (b)
254	(S)-N-[[3-[3,5-Difluoro-4-[4-(cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-118	Z (c)
255	(S)-N-[[3-[4-[4-(Cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P-119	Ethyl dithioacetate

256	(S)-N-[[3-[4-[4-(Cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide	P-119	Z (a)
257	(S)-N-[[3-[4-[4-(Cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-119	Z (b)
258	(S)-N-[[3-[4-[4-(Cyanomethanesulfonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropanecarbothioamide	P-119	Z (c)
259	(S)-N-[[3-[3-Fluoro-4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-120	Ethyl dithioacetate
260	(S)-N-[[3-[3-Fluoro-4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-120	Z (a)
261	(S)-N-[[3-[3-Fluoro-4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-120	Z (b)
262	(S)-N-[[3-[3-Fluoro-4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-120	Z (c)
263	(S)-N-[[3-[3,5-Difluoro-4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P-121	Ethyl dithioacetate
264	(S)-N-[[3-[3,5-Difluoro-4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P-121	Z (a)

	nyl)methyl]-propanethioamide		
265	(S)-N-[[3-[3,5-Difluoro-4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide	P-121	Z (b)
266	(S)-N-[[3-[3,5-Difluoro-4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclopropanecarbothioamide	P-121	Z (c)
267	(S)-N-[[3-[4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-thioacetamide	P-122	Ethyl dithioacetate
268	(S)-N-[[3-[4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-propanethioamide	P-122	Z (a)
269	(S)-N-[[3-[4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide	P-122	Z (b)
270	(S)-N-[[3-[4-[4-(N-methylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclopropanecarbothioamide	P-122	Z (c)
271	(S)-N-[[3-[3-Fluoro-4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-thioacetamide	P-123	Ethyl dithioacetate
272	(S)-N-[[3-[3-Fluoro-4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-propanethioamide	P-123	Z (a)

273	(S)-N-[[3-[3-Fluoro-4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-123	Z (b)
274	(S)-N-[[3-[3-Fluoro-4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-123	Z (c)
275	(S)-N-[[3-[3,5-Difluoro-4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-124	Ethyl dithioacetate
276	(S)-N-[[3-[3,5-Difluoro-4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-124	Z (a)
277	(S)-N-[[3-[3,5-Difluoro-4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-124	Z (b)
278	(S)-N-[[3-[3,5-Difluoro-4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-124	Z (c)
279	(S)-N-[[3-[4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-125	Ethyl dithioacetate
280	(S)-N-[[3-[4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-125	Z (a)
281	(S)-N-[[3-[4-[4-(N,N-dimethylsulfamoyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-125	Z (b)

	piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]-2-methylpropanethioamide		
282	(S)-N-[[3-[4-[4-(N,N-dimethylsulfamoy l)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]- cyclopropanecarbothioamide	P- 125	Z (c)
283	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbo nyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]- thioacetamide	P- 126	Ethyl dithio- acetate
284	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbo nyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]-propanethioamide	P- 126	Z (a)
285	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbo nyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]-2-methylpropanethioamide	P- 126	Z (b)
286	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbo nyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]- cyclopropanecarbothioamide	P- 126	Z (c)
287	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbo nyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]-butanethioamide	P- 126	Z (d)
288	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbo nyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]-3-methylbutanethioamide	P- 126	Z (e)
289	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbo nyl)-1- piperazinyl]phenyl]-2-oxo-5-oxazolidi nyl]methyl]-2-methylbutanethioamide	P- 126	Z (f)

290	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-3,3-dimethylbutanethioamide	P-126	Z (g)
291	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclobutanecarbothioamide	P-126	Z (h)
292	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopentanecarbothioamide	P-126	Z (i)
293	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclohexanecarbothioamide	P-126	Z (j)
294	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopropylethanethioamide	P-126	Z (k)
295	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclobutylethanethioamide	P-126	Z (l)
296	(S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopentylethanethioamide	P-126	Z (m)
297	(S)-N-[[3-[3,5-Difluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-thioacetamide	P-127	Ethyl dithioacetate

298	(S)-N-[[3-[3,5-Difluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-127	Z (a)
299	(S)-N-[[3-[3,5-Difluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-127	Z (b)
300	(S)-N-[[3-[3,5-Difluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-127	Z (c)
301	(S)-N-[[3-[4-[4-(ethoxycarbonyl)-1-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P-127	Ethyl dithioacetate
302	(S)-N-[[3-[4-[4-(ethoxycarbonyl)-1-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide	P-128	Z (a)
303	(S)-N-[[3-[4-[4-(ethoxycarbonyl)-1-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-128	Z (b)
304	(S)-N-[[3-[4-[4-(ethoxycarbonyl)-1-piperazinyl]-phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropane-carbothioamide	P-128	Z (c)
305	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P-129	Ethyl dithioacetate
306	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-	P-129	Z (a)

propanethioamide				
307	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-129	Z (b)	
308	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-129	Z (c)	
309	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]butanethioamide	P-129	Z (d)	
310	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-3-methylbutanethioamide	P-129	Z (e)	
311	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylbutanethioamide	P-129	Z (f)	
312	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-3,3-dimethylbutanethioamide	P-129	Z (g)	
313	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclobutanecarbothioamide	P-129	Z (g)	
314	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopentanecarbothioamide	P-129	Z (i)	
315	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclohexanecarbothioamide	P-129	Z (j)	

316	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-cyclopropylethanethioamide	P-129	Z (k)
317	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-cyclobutylethanethioamide	P-129	Z (l)
318	(S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-cyclopentylethanethioamide	P-129	Z (m)
319	(S)-N-[[3-[3,5-Difluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide	P-130	Ethyl dithioacetate
320	(S)-N-[[3-[3,5-Difluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-130	Z (a)
321	(S)-N-[[3-[3,5-Difluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-130	Z (b)
322	(S)-N-[[3-[3,5-Difluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclopropanecarbothioamide	P-130	Z (c)
323	(S)-N-[[3-[4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide	P-131	Ethyl dithioacetate
324	(S)-N-[[3-[4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-131	Z (a)
325	(S)-N-[[3-[4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-131	Z (b)

	yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide	131		
326	(S)-N-[[3-[4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclopropanecarbothioamide	P-131	Z (c)	
327	(S)-N-[[3-[3-Fluoro-4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide	P-132	Ethyl dithioacetate	
328	(S)-N-[[3-[3-Fluoro-4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-132	Z (a)	
329	(S)-N-[[3-[3-Fluoro-4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide	P-132	Z (b)	
330	(S)-N-[[3-[3-Fluoro-4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclopropanecarbothioamide	P-132	Z (c)	
331	(S)-N-[[3-[3,5-Difluoro-4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide	P-133	Ethyl dithioacetate	
332	(S)-N-[[3-[3,5-Difluoro-4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-133	Z (a)	
333	(S)-N-[[3-[3,5-Difluoro-4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide	P-133	Z (b)	

334	(S)-N-[[3-[3,5-Difluoro-4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-133	Z (c)
335	(S)-N-[[3-[4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P-134	Ethyl dithioacetate
336	(S)-N-[[3-[4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide	P-134	Z (a)
337	(S)-N-[[3-[4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-134	Z (b)
338	(S)-N-[[3-[4-[4-(cyanomethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropanecarbothioamide		
339	(S)-N-[[3-[3-Fluoro-4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide	P-135	Ethyl dithioacetate
340	(S)-N-[[3-[3-Fluoro-4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide	P-135	Z (a)
341	(S)-N-[[3-[3-Fluoro-4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	P-135	Z (b)
342	(S)-N-[[3-[3-Fluoro-4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	P-135	Z (c)
343	(S)-N-[[3-[3,5-Difluoro-4-[4-(2-fluoroethyl)-1-	P-136	Ethyl dithio-

	piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-thioacetamide		acetate
344	(S)-N-[[3-[3,5-Difluoro-4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-136	Z (a)
345	(S)-N-[[3-[3,5-Difluoro-4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide	P-136	Z (b)
346	(S)-N-[[3-[3,5-Difluoro-4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclopropanecarbothioamide	P-136	Z (c)
347	(S)-N-[[3-[4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide	P-137	Ethyl dithioacetate
348	(S)-N-[[3-[4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-137	Z (a)
349	(S)-N-[[3-[4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide	P-137	Z (b)
350	(S)-N-[[3-[4-[4-(2-fluoroethyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclopropane-carbothioamide	P-137	Z (c)
351	(S)-N-[[3-[3-Fluoro-4-(4-formyl-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide; Anal calcd for C ₁₇ H ₂₁ FN ₄ O ₃ S: C, 53.67; H, 5.56; N,	P-138	Ethyl dithioacetate

14.73; S, 8.43. Found: C, 53.14; H, 5.42; N, 14.25; S, 8.18.

- 352 (S)-N-[[3-[3-Fluoro-4-(4-formyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide; mp 166-167°C; Anal. calcd for $C_{18}H_{23}FN_4O_3S$: C, 54.81; H, 5.88; N, 14.20; S, 8.13. Found: C, 54.83; H, 6.00; N, 14.12; S, 7.96. P- 138 Z (a)
- 353 (S)-N-[[3-[3-Fluoro-4-(4-formyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropane-thioamide; mp 157-158°C; Anal. calcd for $C_{19}H_{25}FN_4O_3S$: C, 55.87, H, 6.17; N, 13.72; S, 7.85. Found: C, 55.67; H, 6.19; N, 13.50; S, 7.70. P- 138 Z (b)
- 354 (S)-N-[[3-[3-Fluoro-4-(4-formyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]cyclopropane-carbothioamide; mp 178-179°C; Anal. calcd for $C_{19}H_{23}FN_4O_3S$: C, 56.14; H, 5.70; N, 13.78; S, 7.89. Found: C, 56.13; H, 5.64; N, 13.64; S, 7.75. P- 138 Z (c)
- 355 (S)-N-[[3-[3,5-Difluoro-4-(4-formyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide P- 139 Ethyl dithioacetate
- 356 (S)-N-[[3-[3,5-Difluoro-4-(4-formyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide P- 139 Z (a)
- 357 (S)-N-[[3-[3,5-Difluoro-4-(4-formyl-1-piperazinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methyl-propanethioamide P- 139 Z (b)
- 358 (S)-N-[[3-[3,5-Difluoro-4-(4-formyl-1-piperazinyl)- P- 139 Z (c)

	phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclo-propanecarbothioamide		
359	(S)-N-[[3-[4-(4-formyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide	P-140	Ethyl dithioacetate
360	(S)-N-[[3-[4-(4-formyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]propanethioamide	P-140	Z (a)
361	(S)-N-[[3-[4-(4-formyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2-methylpropanethioamide	P-140	Z (b)
362	(S)-N-[[3-[4-(4-formyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]cyclopropane-carbothioamide	P-140	Z (c)

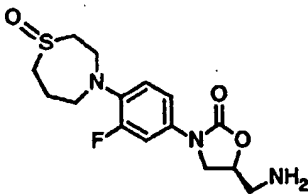
<u>Example No.</u>	<u>Product</u>	<u>Isothiocyanate Corresponding to Amine No.</u>	<u>Amine</u>
363	(S)-N-[[3-[3-Fluoro-4-(4-acetyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-azetidinecarbothioamide		
364	(S)-N-[[3-[3-Fluoro-4-[4-(methoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-azetidinecarbothioamide		
365	(S)-N-[[3-[3-Fluoro-4-[4-(acetoxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-azetidinecarbothioamide		

- 366 (S)-N-[[3-[3-Fluoro-4-[4-(methoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]-methyl]-1-azetidinecarbothioamide
- 367 (S)-N-[[3-[3-Fluoro-4-[4-(ethoxycarbonyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinyl]-methyl]-1-azetidinecarbothioamide
- 368 (S)-N-[[3-[3-Fluoro-4-(4-sulfamoyl-1-piperazinyl)phenyl]-2-oxo-5-oxazolidinyl]-methyl]-1-azetidinecarbothioamide

EXAMPLE 369.

(5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide, thiazepine S-oxide

TABLE H

<u>Example Compound No.</u>	<u>Amine</u>	<u>Dithioester</u> (from Preparation Z)
370 (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide, thiazepine S-oxide		Z (a)

- | | | | |
|-----|--|---------------|-------|
| 371 | S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethio-
-amide, thiazepine S-oxide. | Same as above | Z (b) |
| 372 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothio-
-amide, thiazepine S-oxide. | Same as above | Z (c) |
| 373 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-butanethioamide, thiazepine S-oxide | Same as above | Z (d) |

- | | | | |
|-----|--|---------------|-------|
| 374 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-3-methylbutanethioamide, thiazepine S-oxide | Same as above | Z (e) |
| 375 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylbutanethioamide, thiazepine S-oxide | Same as above | Z (f) |
| 376 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-3,3-dimethylbutanethioamide, thiazepine S-oxide | Same as above | Z (g) |

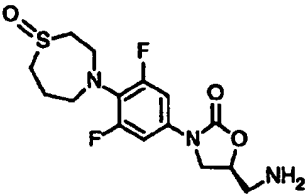
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|-----|---|---------------|-------|
| 377 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclobutanecarbothioamide, thiazepine S-oxide | Same as above | Z (h) |
| 378 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-cyclopentanecarbothioamide, thiazepine S-oxide | Same as above | Z (i) |
| 379 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclohexanecarbothioamide, thiazepine S-oxide | Same as above | Z (j) |

- 380 (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopropylethane thioamide, thiazepine S-oxide Same as above Z (k)
- 381 (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclobutylethanethioamide, thiazepine S-oxide
- 382 (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-cyclopentylethane thioamide, thiazepine S-oxide

Example 383.

(5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide, thiazepine S-oxide

TABLE I

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithioester (from Preparation Z)</u>
384	(5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide, thiazepine S-oxide		Z (a)
385	(5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide, thiazepine S-oxide	Same as above	Z (b)

386 (5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl)methyl]-cyclopropanecarbothioamide, thiazepine S-oxide

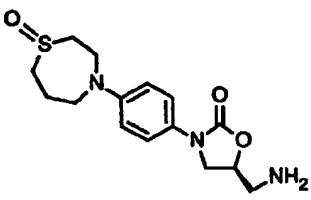
Same as above

Z (c)

Example 387.

(5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide, thiazepine S-oxide.

TABLE J

<u>Example Compound No.</u>	<u>Amine</u>	<u>Dithioester (from Preparation Z)</u>
388 (5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl)methyl]-propanethioamide, thiazepine S-oxide		Z (a)

389	(5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethio- - amide, thiazepine S- oxide	Same as above	Z (b)
390	(5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]- cyclopropanecarbo thio- amide, thiazepine S- oxide	Same as above	Z (c)

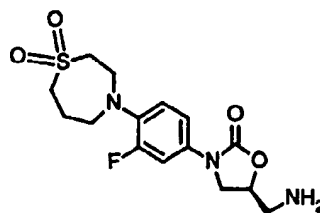
Example 391.

(5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)
)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide,
thiazepine S,S-dioxide

TABLE K

<u>Example</u> <u>No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithioester</u> (from Preparation Z)
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- 392 (5S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]propanethioamide, thiazepine S,S-dioxide Z (a)
- 393 (5S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide, thiazepine S,S-dioxide Same as above Z (b)
- 394 (5S)-N-[[3-[3-Fluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide, thiazepine S,S-dioxide Same as above Z (c)

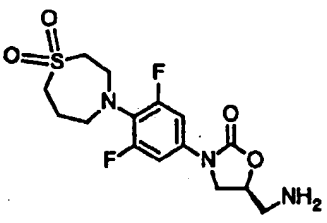


Example 395.

(5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H))-phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide,

thiazepine S,S-dioxide

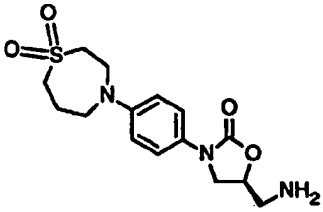
TABLE I

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithioester</u> (from Preparation Z) Z (a)
396	(5S)-N-[[3-[3,5-Difluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide, thiazepine S,S-dioxide		
397	(5S)-N-[[3-[3,5-Difluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide, thiazepine S,S-dioxide	Same as above	Z (b)
398	(5S)-N-[[3-[3,5-Difluoro-4-(4-thiomorpholinyl)-phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide, thiazepine S,S-dioxide	Same as above	Z (c)

Example 399.

(5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide, thiazepine S,S-dioxide

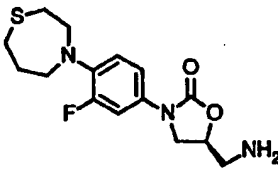
TABLE M

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithioester</u> (From Preparation Z)
400	(5S)-N-[[3-[4-(tetrahydro-1,4-thiazepin-4(5H)-yl))phenyl]-2-oxo-5-oxazolidinyl]-methyl]propanethio- - amide, thiazepine S,S-dioxide		Z (a)
401	(5S)-N-[[3-[4-(tetrahydro-1,4-thiazepin-4(5H)-yl))phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethio- amide, thiazepine S,S-dioxide	Same as above	Z (b)
402	(5S)-N-[[3-[4-(tetrahydro-1,4-thiazepin-4(5H)-yl))phenyl]-2-oxo-5-oxazolidinyl]-methyl]cyclopropane- carbothioamide, thiazepine S,S-dioxide	Same as above	Z (c)

EXAMPLE 403.

(5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide.

TABLE N

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithioester</u> (From Preparation Z)
404	(5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-phenyl]-4(5H)-yl))-henYlJ-2-oxo-5-oxazolidinyl]methyl]-propanethioamide		Z (a)
405	(5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	Same as above	Z (b)
406	(5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarbothioamide	Same as above	Z (c)

- | | | | |
|-----|---|---------------|-------|
| 407 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]meth
yl]-
butanethioamide | Same as above | Z (d) |
| 408 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]meth
yl]-3-
methylbutanethioa
mide | Same as above | Z (e) |
| 409 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]meth
yl]-2-
methylbutanethioa
mide | Same as above | Z (f) |
| 410 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]meth
yl]-
3,3-
dimethylbutanethi
o-
amide | Same as above | Z (g) |

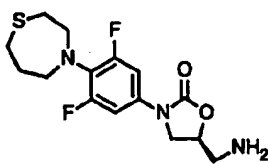
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|-----|--|---------------|-------|
| 411 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]meth
yl]-cyclobutanecarbot
hio-
amide | Same as above | Z (h) |
| 412 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]meth
yl]-cyclopentanecarbo
thio-
amide | Same as above | Z (i) |
| 413 | (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]meth
yl]-cyclohexanecarbot
hio-
amide | Same as above | Z (j) |

414	(5S)-N-[[3-[3-5 Fluoro- 4-(tetrahydro- 1,4- thiazepin-4(5H)- yl))- phenyl]-2-oxo-5- oxazolidinyl]meth yl]-2- cyclopropylethane thio- amide	Same as above	Z (k)
415	(5S)-N-[[3-[3- Fluoro-4- (tetrahydro-1,4- thiazepin-4(5H)- yl))- phenyl]-2-oxo-5- oxazolidinyl]meth yl]-2- cyclobutylethanet hio- amide	Same as above	Z (l)
416	(5S)-N-[[3-[3- Fluoro-4- (tetrahydro-1,4- thiazepin-4(5H)- yl))- phenyl]-2-oxo-5- oxazolidinyl]methy l]-2- cyclopentylethanet hioam ide	Same as above	Z (m)

EXAMPLE 417.

(5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4
(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide

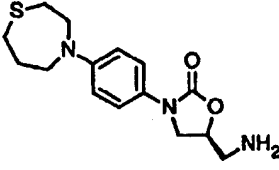
TABLE O

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound</u> (from Preparation Z)
418	(5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-propanethioamide		Z (a)
419	(5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	Same as above	Z (b)
420	(5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-cyclopropanecarboxithioamide	Same as above	Z (c)

EXAMPLE 421.

(5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide

TABLE P

<u>Example No.</u>	<u>Compound</u>	<u>Amine</u>	<u>Dithio Compound (from Preparation Z)</u>
422	(5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]-methyl]propanethioamide		Z (a)
423	(5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]methyl]-2-methylpropanethioamide	Same as above	Z (b)
424	(5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl))-phenyl]-2-oxo-5-oxazolidinyl]-methyl]cyclopropane-carbothioamide	Same as above	Z (c)
425	(5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-1-azetidinecarbothioamide, thiazepine S-oxide		

- 426 (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-O-methylthiocarbamate, thiazepine S-oxide
- 427 (5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-azetidinecarbothioamide, thiazepine S-oxide
- 428 (5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-azetidinecarbothioamide, thiazepine S-oxide

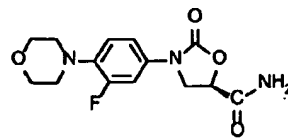
- 429 (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-azetidinecarbothioamide, thiazepine S,S-dioxide
- 430 (5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-azetidinecarbothioamide, thiazepine S,S-dioxide
- 431 (5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-1-azetidinecarbothioamide, thiazepine S,S-dioxide

432 (5S)-N-[[3-[3-Fluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-1-azetidinecarbothioamide

433 (5S)-N-[[3-[3,5-Difluoro-4-(tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-1-azetidinecarbothioamide

434 (5S)-N-[[3-[4-(Tetrahydro-1,4-thiazepin-4(5H)-yl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-1-azetidinecarbothioamide

EXAMPLE 435 (5R)-(-)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxamide-Method A



Step 1: Preparation of (5R)-(-)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxylic acid

A solution of benzyl 3-fluoro-4-(4-morpholinyl)phenylcarbamate (*J. Med. Chem.* **1996**, 39(3), 673-679, 2.50 g, 7.57 mmol) in dry tetrahydrofuran (37.8

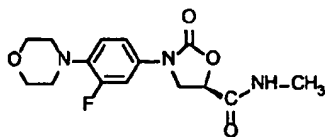
mL) at -78°C under nitrogen was treated with *n*-butyllithium (1.6M in hexanes, 4.82 mL, 7.72 mmol) dropwise and stirred at -78°C for 30 minutes. The cooling bath was removed and the mixture was allowed to slowly warm to -40°C , at which point potassium (2R)-glycidate (*J. Org. Chem.* **1992**, 57(12), 3380-3387, 974 mg, 7.72 mmol) was added. After subsequent warming to ambient temperature, the resulting mixture was vigorously stirred for 2.75 days and then quenched with saturated aqueous ammonium chloride (20 mL), diluted with water (20 mL) and extracted with ethyl acetate (2 x 75 mL) to remove the remaining starting. The aqueous phase was adjusted to pH 2 with 1M aqueous hydrochloric acid, saturated with sodium chloride and extracted with methylene chloride (5 x 100 mL), and this combined organic phase was dried over anhydrous sodium sulfate and concentrated under reduced pressure to give the crude product. The product mixture was then chromatographed on a Flash 40M silica gel (90 g, 32 - 63 μm) cartridge, eluting with a gradient of acetonitrile/methylene chloride (10/90 - 40/60) containing 1 % formic acid, and those fractions with an $R_f = 0.15$ by TLC (acetonitrile/methylene chloride, 50/50 + 1% formic acid) are pooled and concentrated to give the title compound, ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ 13.7 (bs, 1H), 7.48 (dd, 1H), 7.23 (m, 1H), 7.05 (t, 1H), 5.17 (dd, 1H), 4.30 (t, 1H), 4.06 (dd, 1H), 3.73 (m, 4H), 2.96 (m, 4H); MS (ESI+) for $\text{C}_{14}\text{H}_{15}\text{FN}_2\text{O}_5$ m/z 311 ($\text{M}+\text{H}$) $^+$; $[\alpha]^{25}_{\text{D}} = -38^{\circ}$ (c 0.94, DMSO).

Step 2: Preparation of (5R)-(-)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxamide

To a flame-dried flask containing (5R)-(-)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-

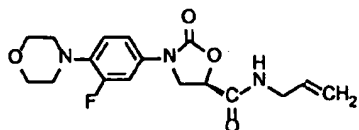
oxazolidinecarboxylic acid (Step 1, 250 mg, 0.806 mmol) under nitrogen was added oxalyl chloride (4 mL) with stirring. The flask was capped with a drying tube, and the mixture was stirred at ambient temperature for 15 hours and then concentrated under reduced pressure to give the acid chloride intermediate [MS (ESI+) m/z 325 $(M+H)^+$ observed for the methyl ester obtained by reaction of the acid chloride with methanol] which was used without further purification. This intermediate was then taken up in anhydrous tetrahydrofuran (8 mL) under nitrogen, cooled to 0°C , and ammonia (g) was bubbled in for 5 minutes. The resulting mixture was capped with a drying tube, stirred at ambient temperature for 1 hour, and then diluted with water (20 mL) and extracted with methanol/chloroform (10/90, 2 x 30 mL). The combined organic phase was dried over anhydrous sodium sulfate and concentrated under reduced pressure, and the product mixture was recrystallized from ethyl acetate/hexane to give the title compound, mp $185 - 187^{\circ}\text{C}$ (decomp.); MS (ESI+) for $\text{C}_{14}\text{H}_{16}\text{FN}_3\text{O}_4$ m/z 310 $(M+H)^+$; $[\alpha]^{25}_{\text{D}} = -23^{\circ}$ (c 0.89, DMSO).

EXAMPLE 436 (5R)-(-)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-N-methyl-2-oxo-5-oxazolidinecarboxamide



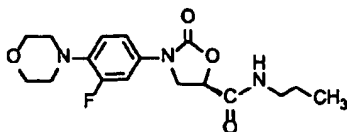
Following the general procedure of EXAMPLE 435, Step 2, and making non-critical variations but substituting methylamine for ammonia, the title compound was obtained, mp $182-183^{\circ}\text{C}$ (decomp.); MS (ESI+) for $\text{C}_{15}\text{H}_{18}\text{FN}_3\text{O}_4$ m/z 324 $(M+H)^+$; $[\alpha]^{25}_{\text{D}} = -39^{\circ}$ (c 0.92, DMSO).

EXAMPLE 437 (5R)-(-)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-N-allyl-2-oxo-5-oxazolidinecarboxamide



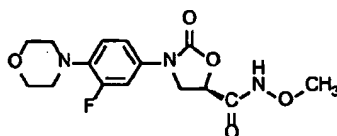
To a flame-dried flask under nitrogen was added allylamine (0.60 mL, 8.05 mmol). The flask was cooled in an ice bath, and a solution of (5R)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarbonyl chloride (EXAMPLE 435, Step 2, 0.805 mmol theory) in anhydrous tetrahydrofuran (8.0 mL) was added. The resulting mixture was stirred under nitrogen for 2 hours, allowing the cooling bath to slowly expire, and was then diluted with water (10 mL) and extracted with methylene chloride (20 mL). The organic phase was washed with water (10 mL) and saline (10 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure, and the crude product was chromatographed on a Flash 40S silica gel (40 g, 32 - 63 μ m) cartridge, eluting with a gradient of methanol/methylene chloride (0.5/99.5 - 2/98). Pooling and concentration of those fractions with an R_f = 0.44 by TLC (methanol/chloroform, 5/95) provides the title compound, mp 167 - 169°C; MS (ESI+) for $C_{17}H_{20}FN_3O_4$ m/z 350 ($M+H$)⁺; $[\alpha]^{25}_D$ = -44° (c 0.94, DMSO).

EXAMPLE 438 (5R)-(-)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-N-propyl-2-oxo-5-oxazolidinecarboxamide



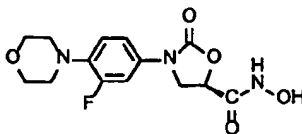
Following the general procedure of EXAMPLE 437, and making non-critical variations but substituting propylamine for allylamine and triturating and filtering the final product from methanol/diethyl ether, the title compound was obtained, mp 165 - 167°C; MS (ESI+) for $C_{17}H_{22}FN_3O_4$ m/z 352 (M+H)⁺; $[\alpha]^{25}_D = -43^\circ$ (c 1.02, DMSO).

EXAMPLE 439 (5R)-(-)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-N-methoxy-2-oxo-5-oxazolidinecarboxamide



A mixture of (5R)-(-)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxylic acid (EXAMPLE 1, Step 1, 150 mg, 0.483 mmol) and O-methylhydroxylamine hydrochloride (61 mg, 0.724 mmol) in tetrahydrofuran/water (1/1, 4.8 mL) was treated with 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride (278 mg, 1.45 mmol), and the resulting mixture was stirred at ambient temperature for 30 minutes and was then diluted with water (10 mL) and extracted with ethyl acetate (2 x 20 mL). The combined organic phase was washed with water (10 mL) and saline (10 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure, and the crude product was chromatographed on a Flash 40S silica gel (40 g, 32 - 63 μ m) cartridge, eluting with methanol/methylene chloride (2.5/97.5). Pooling and concentration of those fractions with an $R_f = 0.53$ by TLC (methanol/chloroform, 10/90) gives the title compound, mp 206 - 208°C (decomp.); MS (ESI+) for $C_{15}H_{18}FN_3O_5$ m/z 340 (M+H)⁺; $[\alpha]^{25}_D = -56^\circ$ (c 0.92, DMSO).

EXAMPLE 440 (5R)-(-)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-N-hydroxy-2-oxo-5-oxazolidinecarboxamide



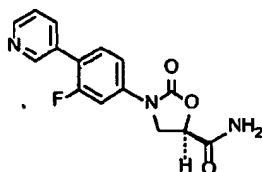
Step 1: Preparation of (5R)-(-)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-N-benzyloxy-2-oxo-5-oxazolidinecarboxamide

Following the general procedure of EXAMPLE 439, and making non-critical variations but substituting O-benzylhydroxylamine hydrochloride for O-methylhydroxylamine hydrochloride, the title compound was obtained, mp 191 - 193°C (decomp.); MS (ESI+) for $C_{21}H_{22}FN_3O_5$ m/z 416 (M+H)⁺; $[\alpha]^{25}_D = -46^\circ$ (c 0.93, DMSO).

Step 2: Preparation of (5R)-(-)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-N-hydroxy-2-oxo-5-oxazolidinecarboxamide

To a mixture of (5R)-(-)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-N-benzyloxy-2-oxo-5-oxazolidinecarboxamide (Step 1, 300 mg, 0.722 mmol) in methanol (28.8 mL) was added 5% palladium-on-carbon (77 mg) under nitrogen. The resulting mixture was degassed and stirred under a hydrogen atmosphere (balloon) for 1 hour. The catalyst was then removed by filtration through Celite, rinsing with methanol (60 mL), and the filtrate was concentrated under reduced pressure. Trituration of this residue with (5% methanol/methylene chloride)/diethyl ether gives the title compound, mp 141 - 143°C; MS (ESI+) for $C_{14}H_{16}FN_3O_5$ m/z 326 (M+H)⁺; $[\alpha]^{25}_D = -70^\circ$ (c 0.99, DMSO).

EXAMPLE 441 (5R)-(-)-3-[4-(3-Pyridyl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide



Step 1: Preparation of (5R)-(-)-3-[3-fluoro-4-iodophenyl]-5-hydroxymethyl-2-oxazolidinone

A solution of isobutyl 3-fluoro-4-iodophenylcarbamate (*Org. Process Res. Dev.* **2001**, *5*(1), 80-83, 5.00 g, 14.83 mmol) in dry tetrahydrofuran (59 mL) at -78°C under nitrogen was treated with lithium hexamethyldisilazide (1.0M in tetrahydrofuran, 15.6 mL, 15.57 mmol) dropwise and stirred at -78°C for 45 minutes. Then, (R)-glycidyl butyrate (2.21 mL, 15.57 mmol) was added dropwise, and the resulting mixture was stirred at -78°C for 1 hour and at ambient temperature for 2.75 days. The reaction mixture was then quenched with saturated aqueous ammonium chloride (20 mL), diluted with water (20 mL) and the layers are separated. The aqueous phase was extracted with ethyl acetate (25 mL), and the combined organic phase was washed with water (25 mL) and saline (25 mL), dried over anhydrous magnesium sulfate and concentrated under reduced pressure. The product mixture was then chromatographed on a Flash 40M silica gel (90 g, 32 - 63 μm) cartridge, eluting with a gradient of methanol/methylene chloride (1/99 - 2/98), and those fractions with an $R_f = 0.25$ by TLC (methanol/chloroform, 5/95) are pooled and concentrated to give the title compound, mp $116 - 117^{\circ}\text{C}$; MS (ESI+) for $\text{C}_{10}\text{H}_9\text{FINO}_3$ m/z 338 $(\text{M}+\text{H})^+$; $[\alpha]^{25}_{\text{D}} = -41$ (c 0.98, DMSO).

Step 2: Preparation of (-)-methyl (5R)-3-[3-fluoro-4-iodophenyl]-2-oxo-5-oxazolidinecarboxylate

A solution of (5R)-(-)-3-[3-fluoro-4-iodophenyl]-5-hydroxymethyl-2-oxazolidinone (Step 1, 7.61 g, 22.58 mmol) in acetone (150 mL) at -10°C was treated with a mixture of CrO₃ (6.21 g, 62.1 mmol) in sulfuric acid (6M, 16.9 mL, 101 mmol) dropwise over 15 minutes. The resulting mixture was allowed to slowly warm to ambient temperature with vigorous stirring (slight exotherm to 35°C) and was stirred for an additional 16 hours. The mixture was then treated with isopropanol (35 mL), diluted with saline (150 mL) and diethyl ether (150 mL), stirred until all solids are dissolved, and the layers are separated. The aqueous phase was extracted with diethyl ether (100 mL), and the combined organic phase was dried over anhydrous magnesium sulfate and concentrated under reduced pressure to give the crude carboxylic acid intermediate which was taken up in methanol (225 mL) and treated with concentrated sulfuric acid (8 drops). The resulting homogeneous mixture was stirred at ambient temperature for 20 hours and was then concentrated under reduced pressure to give the crude methyl ester product which was chromatographed on two Flash 40M 90g silica gel (32 - 63 μm) cartridges, eluting with a gradient of ethyl acetate/heptane (20/80 - 40/60). Pooling and concentration of those fractions with an R_f = 0.36 by TLC (ethyl acetate/hexane, 50/50) gives the title compound, mp 106-109°C; MS (ESI+) for C₁₁H₉FINO₄ m/z 366 (M+H)⁺; [α]_D²⁵ = -30 (c 0.93, DMSO).

Step 3: Preparation of (5R)-(-)-3-[3-fluoro-4-iodophenyl]-2-oxo-5-oxazolidinecarboxamide

A solution of (-)-methyl (5R)-3-[3-fluoro-4-

iodophenyl]-2-oxo-5-oxazolidinecarboxylate (Step 2, 6.23 g, 17.1 mmol) in acetonitrile (85 mL) was treated with concentrated ammonium hydroxide (85 mL), and the resulting mixture was stirred at ambient temperature for 1 hour. The mixture was then diluted with saline (100 mL) and extracted with methylene chloride (3 x 100 mL), and the combined organic phase was washed with saline (100 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure. The crude product was diluted with hot ethyl acetate (200 mL) and filtered to remove inorganic residue, and the filtrate was diluted with hexanes (300 mL). The resulting precipitate was isolated by filtration to give the title compound, mp 176-178°C; MS (ESI+) for $C_{10}H_8FIN_2O_3$ m/z 351 ($M+H$)⁺; $[\alpha]^{25}_D = -19$ (c 0.97, DMSO).

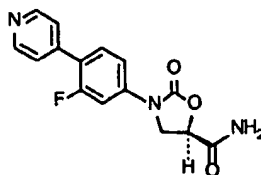
Step 4: Preparation of 3-(trimethylstannyl)pyridine

A mixture of hexamethylditin (654 mg, 1.99 mmol), 3-bromopyridine (300 mg, 1.90 mmol) and bis(triphenylphosphine)palladium(II) chloride (40 mg, 0.057 mmol) in 1,4-dioxane (9.5 mL) was degassed, heated up to 90°C under nitrogen, stirred at this temperature for 2.5 hours and at ambient temperature overnight, and was then concentrated under reduced pressure. The product mixture was chromatographed on a Flash 40S 40g silica gel (32 - 63 μ m) cartridge, eluting with ethyl acetate/heptane (20/80), and those fractions with an $R_f = 0.47$ by TLC (ethyl acetate/hexane, 50/50) are pooled and concentrated to give the title compound (see *Chem. Pharm. Bull.* 1982, 30(5), 1731-1737 for characterization).

Step 5: Preparation of (5R)-(-)-3-[4-(3-pyridyl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide

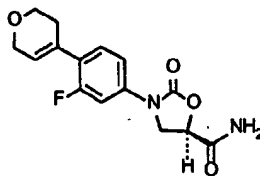
A mixture of (5R)-(-)-3-[3-fluoro-4-iodobiphenyl]-2-oxo-5-oxazolidinecarboxamide (Step 3, 422 mg, 1.21 mmol), 3-(trimethylstannyl)pyridine (Step 4, 350 mg, 1.45 mmol), tris(dibenzylideneacetone)dipalladium(0) (22 mg, 0.0242 mmol), triphenylarsine (59 mg, 0.194 mmol) and copper(I) iodide (9 mg, 0.0484 mmol) in N-methyl-2-pyrrolidinone (4.8 mL) under nitrogen was degassed, heated up to 50°C and stirred at this temperature for 2 days, during which additional tris(dibenzylideneacetone)dipalladium(0) (22 mg, 0.0242 mmol), triphenylarsine (59 mg, 0.194 mmol) and copper(I) iodide (9 mg, 0.0484 mmol) are added. The resulting mixture was diluted with water (15 mL) and extracted with methylene chloride (3 x 20 mL), and the combined organic phase was dried over anhydrous sodium sulfate and concentrated under reduced pressure. The resulting oil was diluted with ethyl acetate (25 mL) and extracted with aqueous hydrochloric acid (1M, 25 mL), and the aqueous phase was neutralized with sodium hydroxide (s), saturated with sodium chloride and extracted with methylene chloride (3 x 25 mL) containing a small amount of methanol. This combined organic phase was dried over anhydrous sodium sulfate and concentrated under reduced pressure, and the residue was recrystallized from ethyl acetate/hexane to give the title compound, mp 240-242°C (dec.); MS (ESI+) for C₁₅H₁₂FN₃O₃ m/z 302 (M+H)⁺; [α]_D²⁵ = -25 (c 0.94, DMSO).

EXAMPLE 442 (5R)-(-)-3-[4-(4-Pyridyl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide



Following the general procedure of EXAMPLE 441, Step 5, and making non-critical variations but substituting 4-(trimethylstannyl)pyridine (US 5,990,136, 23 November 1999) for 3-(trimethylstannyl)pyridine, the title compound was obtained, mp 256-259°C (dec.); MS (ESI+) for $C_{15}H_{12}FN_3O_3$ m/z 302 ($M+H$)⁺; $[\alpha]^{25}_D = -27$ (c 0.94, DMSO).

EXAMPLE 443 (5R)-(-)-3-[4-(3,6-Dihydro-2H-pyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide



Step 1: Preparation of (5R)-3-[4-(trimethylstannyl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide

A mixture of (5R)-(-)-3-[3-fluoro-4-iodophenyl]-2-oxo-5-oxazolidinecarboxamide (EXAMPLE 441, Step 3, 3.50 g, 10.0 mmol), hexamethylditin (3.44 g, 10.5 mmol) and bis(triphenylphosphine)palladium(II) chloride (140 mg, 0.200 mmol) in 1,4-dioxane (50 mL) under nitrogen was degassed, heated up to 90°C and stirred at 90°C for 2 hours and at ambient temperature overnight. The resulting mixture was concentrated under reduced pressure to remove dioxane, diluted with methylene chloride (75 mL), washed with saline (25 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure. The residue was chromatographed on a Flash 40M 90g silica

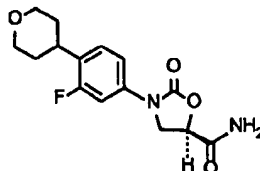
gel (32 - 63 μ m) cartridge, eluting with a gradient of methanol/methylene chloride (1/99 - 2/98), and those fractions with an R_f = 0.26 by TLC (methanol/chloroform, 5/95) are pooled and concentrated to give the title compound, ^1H NMR (400 MHz, CDCl_3) δ 7.38 (m, 2 H), 7.20 (m, 1 H), 6.65 (s, 1 H), 5.82 (s, 1 H), 5.00 (dd, 1 H), 4.26 (m, 2 H), 0.35 (m, 9 H).

Step 2: Preparation of (5R)-(-)-3-[4-(3,6-dihydro-2H-pyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidine-carboxamide

A mixture of 3,6-dihydro-2H-pyran-4-yl trifluoromethanesulfonic acid ester (US 5,968,962, 19 October 1999, 682 mg, 2.94 mmol), tris(dibenzylidene-acetone)dipalladium(0) (54 mg, 0.0588 mmol) and triphenylarsine (144 mg, 0.470 mmol) in N-methyl-2-pyrrolidinone (14.7 mL) was degassed and stirred under nitrogen for 5 minutes. (5R)-3-[4-(trimethylstannyl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide (Step 1, 1.14 g, 2.94 mmol) was then added, and the resulting mixture was stirred at ambient temperature for 5 days. The reaction mixture was then diluted with water (25 mL) and extracted with ethyl acetate (3 x 30 mL), and the combined organic phase was washed with water (3 x 30 mL) and saline (20 mL), dried over anhydrous magnesium sulfate and concentrated under reduced pressure. The crude product mixture was chromatographed on a Flash 40M 90g silica gel (32 - 63 μ m) cartridge, eluting with a gradient of methanol/methylene chloride (1/99 - 2.5/97.5), and those fractions with an R_f = 0.40 by TLC (methanol/chloroform, 2 x 5/95) are pooled and concentrated to give the title compound, mp 164-169°C; MS (ESI-) for $\text{C}_{15}\text{H}_{15}\text{N}_2\text{O}_4\text{F}$ m/z 305 (M-H) $^-$; $[\alpha]^{25}_D$ = -23 (c 0.96,

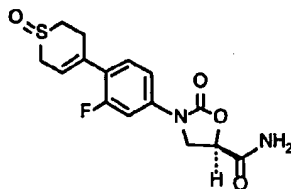
DMSO).

EXAMPLE 444 (5R)-(-)-3-[4-(Tetrahydro-2H-pyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide



A mixture of (5R)-(-)-3-[4-(3,6-dihydro-2H-pyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide (EXAMPLE 443, Step 2, 200 mg, 0.653 mmol) and 10% palladium-on-carbon (139 mg, 0.131 mmol) in methanol (26 mL) was shaken under a 40 psi hydrogen atmosphere on a Parr apparatus for 5 hours. The catalyst was then removed by filtration through a pad of Celite, and the filtrate was concentrated under reduced pressure and chromatographed on a Flash 40S 40g silica gel (32 - 63 μ m) cartridge, eluting with a gradient of methanol/methylene chloride (2/98 - 3/97). Pooling and concentration of those fractions with an R_f = 0.37 by TLC (methanol/chloroform, 2 x 5/95) gives the title compound, mp 153-156°C; MS (ESI-) for $C_{15}H_{17}N_2O_4F$ m/z 307 (M-H)⁻; $[\alpha]^{25}_D$ = -21 (c 0.87, DMSO).

EXAMPLE 445 (5R)-3-[4-(3,6-Dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide S-oxide



Step 1: Preparation of (-)-methyl (5R)-3-[4-(3,6-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxylate

Following the general procedure of EXAMPLE 435, Step 1, and making non-critical variations but substituting isobutyl 4-(3,6-dihydro-2H-thiopyran-4-yl)-3-fluorophenylcarbamate (WO 00/44741, 3 August 2000) for benzyl 3-fluoro-4-(4-morpholinyl)phenylcarbamate, the crude (5R)-3-[4-(3,6-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxylic acid intermediate was obtained and was used without further purification. This intermediate (540 mg crude) was taken up in methanol (16 mL), a drop of concentrated sulfuric acid was added, and the mixture was stirred at ambient temperature for 21 hours. Then, the reaction mixture was concentrated under reduced pressure and chromatographed on a Flash 40S 40g silica gel (32 - 63 μ m) cartridge, eluting with ethyl acetate/heptane (25/75). Pooling and concentration of those fractions with an $R_f = 0.25$ by TLC (ethyl acetate/hexs, 50/50) give the title compound, mp 106-110°C; MS (ESI+) for $C_{16}H_{16}NO_4FS$ m/z 338 ($M+H$)⁺; $[\alpha]^{25}_D = -36$ (c 0.99, DMSO).

Step 2: Preparation of (5R)-(-)-3-[4-(3,6-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide

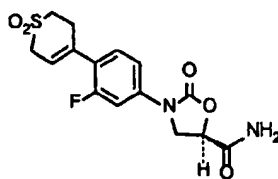
Following the general procedure of EXAMPLE 441, Step 3, and making non-critical variations but substituting (-)-methyl (5R)-3-[4-(3,6-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxylate (Step 1) for (-)-methyl (5R)-3-[3-fluoro-4-iodophenyl]-2-oxo-5-oxazolidinecarboxylate and purifying the product by recrystallization from methanol/diethyl

ether, the title compound was obtained, mp 182-184°C (dec.); MS (ESI-) for $C_{15}H_{15}FN_2O_3S$ m/z 321 (M-H)⁻; $[\alpha]^{25}_D = -24$ (c 0.93, DMSO).

Step 3: Preparation of (5R)-3-[4-(3,6-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidine-carboxamide S-oxide

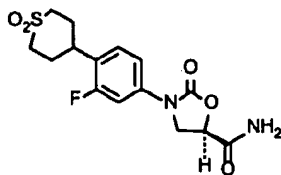
A mixture of (5R)-(-)-3-[4-(3,6-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide (Step 2, 294 mg, 0.912 mmol) in methanol (18 mL) was treated with sodium periodate (205 mg, 0.958 mmol) in water (3.8 mL), and the mixture was stirred at ambient temperature for 44 hours. The resulting mixture was diluted with water (25 mL) and extracted with methylene chloride (5 x 30 mL), and the combined organic phase was dried over anhydrous sodium sulfate and concentrated under reduced pressure. The crude product mixture was triturated with acetone/diethyl ether and then filtered to give the title compound as a mixture of two diastereomers, ¹H NMR (400 MHz, DMSO-*d*₆) δ 7.87 (s, 1 H), 7.63 (s, 1 H), 7.52 (d, 1 H), 7.39 (m, 2 H), 5.83 (m, 1 H), 5.04 (dd, 1 H), 4.29 (t, 1 H), 4.02 (dd, 1 H), 3.65 (m, 1 H), 3.39 (m, 1 H), 3.10 (m, 1 H), 2.92 (m, 2 H), 2.54 (m, 1 H); MS (ESI+) for $C_{15}H_{15}FN_2O_4S$ m/z 339 (M+H)⁺.

EXAMPLE 446 (5R)-(-)-3-[4-(3,6-Dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide



A solution of (5R)-(-)-3-[4-(3,6-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide (EXAMPLE 445, Step 2, 209 mg, 0.648 mmol) in water/acetone (25/75, 13 mL) under nitrogen was treated with N-methylmorpholine N-oxide (190 mg, 1.62 mmol) and osmium tetroxide (2.5 wt% in tBuOH, 0.41 mL, 0.0324 mmol), and the mixture was stirred at ambient temperature for 43 hours. The reaction was then treated with ½-saturated aqueous sodium bisulfite (25 mL) and extracted with methylene chloride (3 x 25 mL), and the combined organic phase was dried over anhydrous sodium sulfate and concentrated under reduced pressure. The residue was chromatographed on a Flash 40S 40g silica gel (32 - 63 μ m) cartridge, eluting with a gradient of methanol/methylene chloride (2.5/97.5-4/96), and those fractions with an R_f = 0.48 by TLC (methanol/chloroform, 10/90) are pooled and concentrated to give the title compound, mp 206-208°C; MS (ESI-) for $C_{15}H_{15}FN_2O_5S$ m/z 353 (M-H)⁻; $[\alpha]^{25}_D$ = -20 (c 0.98, DMSO).

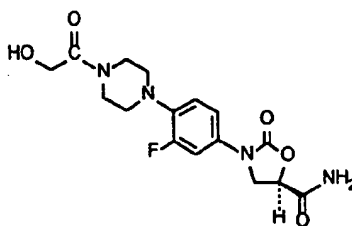
EXAMPLE 447 (5R)-(-)-3-[4-(Tetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide



A mixture of (5R)-(-)-3-[4-(3,6-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide (EXAMPLE 446, 73 mg, 0.206 mmol) and 10% palladium-on-carbon (44 mg, 0.0412 mmol) in methanol (21 mL) was shaken under a 40 psi

hydrogen atmosphere on a Parr apparatus for 16 hours. The catalyst was then removed by filtration through a pad of Celite, rinsing with methanol and tetrahydrofuran, and the filtrate was concentrated under reduced pressure and triturated with (5% methanol/methylene chloride)/diethyl ether. Filtration then provides the title compound, mp 229-231°C (dec.); MS (ESI-) for $C_{15}H_{17}FN_2O_5S$ m/z 355 (M-H)⁻; $[\alpha]^{25}_D = -20$ (c 0.83, DMSO).

EXAMPLE 448 (5R)-(-)-3-[3-Fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinecarboxamide



Step 1: Preparation of (-)-phenylmethyl 4-[4-[(5R)-5-(aminocarbonyl)-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-1-piperazinecarboxylate

Following the general procedure of EXAMPLE 435, Step 1, and making non-critical variations but substituting benzyl 4-(4-[[benzyloxycarbonyl]amino]-2-fluorophenyl)-1-piperazinecarboxylate (*J. Med. Chem.* **1996**, 39(3), 673-679) for benzyl 3-fluoro-4-(4-morpholinyl)phenyl-carbamate, the crude 1-(phenylmethyl)-4-[4-[(5R)-5-carboxy-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-1-piperazinecarboxylate intermediate was obtained [MS (ESI-) for $C_{22}H_{22}N_3O_6F$ m/z 442 (M-H)⁻] and was used without further purification. This intermediate (1.66g crude) was taken up in methanol (75 mL), 4 drops of concentrated sulfuric acid are added, and the mixture was stirred at ambient temperature for 19 hours. Then, the reaction

mixture was concentrated under reduced pressure and chromatographed twice on a Flash 40M 90g silica gel (32 - 63 μ m) cartridge, eluting with a gradient of methanol/methylene chloride (1/99 - 2/98). Pooling and concentration of those fractions with an R_f = 0.64 by TLC (methanol/chloroform, 5/95) provides 740 mg of the phenylmethyl 4-[2-fluoro-4-[(5R)-5-(methoxycarbonyl)-2-oxo-3-oxazolidinyl]phenyl]-1-piperazinecarboxylate intermediate [MS (ESI+) for $C_{23}H_{24}N_3O_6F$ m/z 458 (M+H)⁺; 75-80% purity] which was used without further purification. This intermediate was taken up in 2M ammonia in methanol (13 mL), and the resulting mixture was stirred at ambient temperature for 3 hours and then concentrated under reduced pressure. The residue was chromatographed on a Flash 40M 90g silica gel (32 - 63 μ m) cartridge, eluting with a gradient of methanol/methylene chloride (1/99 - 3/97), and those fractions with an R_f = 0.20 by TLC (methanol/chloroform, 5/95) are pooled and concentrated to give the title compound, mp 172-175°C; MS (ESI+) for $C_{22}H_{23}N_4O_5F$ m/z 443 (M+H)⁺; $[\alpha]^{25}_D$ = -17 (c 1.04, DMSO).
Step 2: Preparation of (5R)-3-[3-fluoro-4-[4-[(phenylmethoxy)acetyl]-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinecarboxamide

A mixture of (-)-phenylmethyl 4-[4-[(5R)-5-(aminocarbonyl)-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-1-piperazinecarboxylate (Step 1, 415 mg, 0.938 mmol) and 10% palladium-on-carbon (100 mg, 0.0938 mmol) in methanol (45 mL) was shaken under a 45 psi hydrogen atmosphere on a Parr apparatus for 4 hours. The catalyst was then removed by filtration through a pad of Celite, and the filtrate was concentrated under reduced pressure to give 290 mg (100%) of the (5R)-3-[(3-fluoro-4-piperazinyl)

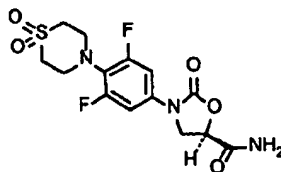
phenyl]-2-oxo-5-oxazolidinecarboxamide intermediate [MS (ESI+) for $C_{14}H_{17}N_4O_3F$ m/z 309 (M+H)⁺] which was used without further purification. A mixture of this intermediate (240 mg, 0.778 mmol) in methylene chloride (7.8 mL) under nitrogen was treated with triethylamine (163 μ L, 1.17 mmol) followed by benzyloxyacetyl chloride (135 μ L, 0.856 mmol), and the resulting homogeneous mixture was stirred at ambient temperature for 3 hours. The reaction mixture was then diluted with water (20 mL) and methylene chloride (20 mL), the layers are separated, and the organic phase was washed with saline (10 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure to give the crude product which was then chromatographed on a Flash 40M 90g silica gel (32 - 63 μ m) cartridge, eluting with methanol/methylene chloride (2.5/97.5). Pooling and concentration of those fractions with an R_f = 0.50 by TLC (methanol/chloroform, 10/90) provides the title compound, ¹H NMR (400 MHz, DMSO-*d*₆) δ 7.85 (s, 1 H), 7.61 (s, 1 H), 7.52 (dd, 1 H), 7.36 (m, 4 H), 7.31 (m, 1 H), 7.24 (m, 1 H), 7.06 (m, 1 H), 5.01 (dd, 1 H), 4.53 (s, 2 H), 4.25 (m, 3 H), 3.97 (dd, 1 H), 3.58 (m, 4 H), 2.96 (m, 4 H); MS (ESI+) for $C_{23}H_{25}FN_4O_5$ m/z 457 (M+H)⁺.

Step 3: Preparation of (5R)-(-)-3-[3-fluoro-4-[4-(hydroxyacetyl)-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinecarboxamide

A mixture of (5R)-3-[3-fluoro-4-[4-[(phenylmethoxy)-acetyl]-1-piperazinyl]phenyl]-2-oxo-5-oxazolidinecarboxamide (Step 2, 260 mg, 0.570 mmol) and 10% palladium-on-carbon (61 mg, 0.0570 mmol) in a mixture of methanol (5 mL) and EtOH (23 mL) was shaken under a 40 psi hydrogen atmosphere on a Parr apparatus for 22 hours.

The catalyst was then removed by filtration through a pad of Celite, rinsing with tetrahydrofuran (200 mL), and the filtrate was concentrated under reduced pressure and triturated with methanol/diethyl ether. Filtration then provided the title compound, mp 232-235°C (dec.); MS (ESI+) for C₁₆H₁₉FN₄O₅ *m/z* 367 (M+H)⁺; [α]²⁵_D = -20 (c 0.98, DMSO).

EXAMPLE 449 (5R)-(-)-3-[4-(Thiomorpholin-4-yl)-3,5-difluorophenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide



Step 1: Preparation of 4-(2,6-difluorophenyl)thiomorpholine 1,1-dioxide

Aluminum chloride (310 g, 2.3 mol) was added to chlorobenzene (2.5 L) to give a cloudy green suspension. Vinyl sulfone (230 mL, 2.3 mol) was added via funnel, followed by 2,6-difluoroaniline (250 mL, 2.3 mol). The light brown solution was heated to 110° C. Upon completion of the reaction, the heat was removed and the black solution was self-cooled to 70° C. The reaction mixture was then quenched in methylene chloride (4 L) and ice water (5 L), the aqueous phase was extracted with methylene chloride (3 L, 2 L, 2 L, 2 L) and the combined organic layers are concentrated, rediluted with branched octane (3 L), and then cooled to 0° C for 30 minutes. The solids are filtered and washed with branched octane (2 × 500 mL) and are then dissolved in methylene chloride (3

L) and loaded onto a SiO₂ plug (1.8 kg). The column was eluted with dichloromethane (16 L) until clear. The methylene chloride solution was concentrated, and the solids are dissolved in hot ethyl acetate (3 L) followed by the addition of hexanes (900 mL). The black solution was self-cooled to room temperature overnight, and the resulting light amber crystal needles are filtered and washed with hexanes (4 × 250 mL). The solids are dried under reduced pressure at 50° C overnight to give the title compound, ¹H NMR (CDCl₃) (δ): 7.08 (m, 1H), 6.91 (m, 2H), 3.67 (m, 4H), 3.18 (m, 4H).

Step 2: Preparation of 4-(2,6-difluoro-4-nitro-phenyl)thiomorpholine 1,1-dioxide

To a suspension of 4-(2,6-difluorophenyl)thiomorpholine 1,1-dioxide (Step 1, 300 g, 1.21 mol) in 3 L of acetic acid, nitric acid (255 mL, ca. 6 mol, fuming, 90%) was added over 30 minutes at ambient temperature. A yellow precipitate forms within minutes and increases over time. The reaction was kept at room temperature for 18 hours and was then poured into 6 L of water. After stirring for 2 hours, the yellow suspension was filtered. The precipitate was washed with water (1.5 L × 3) and ethanol (0.5 L × 2) and dried at 50° C overnight to give the title compound, ¹H NMR (DMSO-d₆) (δ): 8.05 (m, 2H), 3.69 (m, 4H), 3.26 (m, 4H).

Step 3: Preparation of 4-(1,1-dioxido-4-thiomorpholinyl)-3,5-difluoroaniline

To an autoclave was added 4-(2,6-difluoro-4-nitrophenyl)thiomorpholine 1,1-dioxide (Step 2, 7.0 kg, 24 moles, 1.0 eq). Raney Nickel (1.4 kg) was activated and suspended in tetrahydrofuran (4 L), and the slurry was added to the autoclave followed by additional

tetrahydrofuran (66 L). The mixture was heated at 40° C under a 40 psi hydrogen atmosphere until the reaction was complete. The mixture was then filtered, and the filtrate was directly used in the next step. A small portion of the filtrate can be concentrated and recrystallized in isopropanol to give the title compound in pure form, ¹H NMR (DMSO-d₆) (δ): 6.17 (m, 2H), 5.35 (s, 2H), 3.32 (m, 4H), 3.15 (m, 4H).

Step 4: Preparation of isobutyl 4-(1,1-dioxido-4-thiomorpholinyl)-3,5-difluorophenylcarbamate

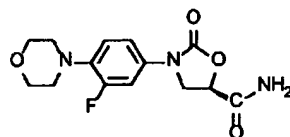
To a 400 L glass-lined reactor containing the 4-(1,1-dioxido-4-thiomorpholinyl)-3,5-difluoroaniline/tetrahydrofuran solutions (Step 3, 12.6 kg, 48 moles, 1.0 eq) was added 47% potassium carbonate solution (14.1 kg, 48 moles, 1.0 eq). The mixture was heated to approximately 45° C, and isobutyl chloroformate (7.2 kg, 53 moles, 1.1 eq) was added while maintaining a reaction temperature between 45° C and 55° C. The reaction was stirred at 45°- 55° C. Once deemed complete, the reaction was quenched by slowly adding water (45 L) over 15 minutes. The reaction mixture was cooled to 25° C and the phases are separated. The tetrahydrofuran solution was swapped to an isopropanol (150 L)/water (50 L) suspension, and the slurry was slowly cooled to 5° C. The yellow slurry was then filtered and the cake washed with cold isopropanol (2 × 30 L). The yellow solids are dried with 60 °C nitrogen to give the title compound, ¹H NMR (CDCl₃) (δ): 7.02 (m, 2H), 6.81 (s, 1H), 3.95 (d, 2H), 3.60 (m, 4H), 3.17 (m, 4H), 1.97 (m, 1H), 0.94 (d, 6H).

Step 5: Preparation of (5R)-(-)-3-[4-(thiomorpholin-4-yl)-3,5-difluorophenyl]-2-oxo-5-oxazolidinecarboxamide

S,S-dioxide

Following the general procedure of EXAMPLE 448, Step 1, and making non-critical variations but substituting isobutyl 4-(1,1-dioxido-4-thiomorpholinyl)-3,5-difluorophenylcarbamate (Step 4) for benzyl 4-(4-[[benzyloxycarbonyl]amino]-2-fluorophenyl)-1-piperazinecarboxylate and purifying the final product by trituration and filtration from (10% methanol/chloroform)/diethyl ether, the title compound was obtained, mp 245-248° C (dec.); MS (ESI+) for C₁₄H₁₅F₂N₃O₅S m/z 376 (M+H)⁺; [δ]²⁵_D = -22 (c 1.00, DMSO).

EXAMPLE 450 (5R)-(-)-3-[3-Fluoro-4-(4-morpholinyl)-phenyl]-2-oxo-5-oxazolidinecarboxamide—Method C



Step 1: Preparation of ethyl (5R)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxylate

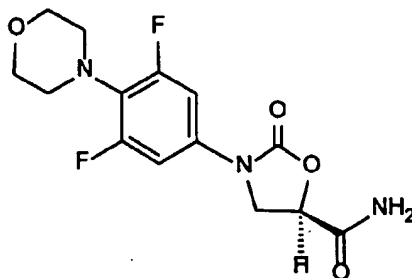
A solution of 3-fluoro-4-morpholinoaniline (*J. Med. Chem.* **1996**, 39(3), 673-679, 0.796 g, 4.0 mmol), ethyl 2(R)-epoxypropanoate (0.696 g, 6.0 mmol) and lithium triflate (0.97 g, 6.2 mmol) in acetonitrile (12 mL) was stirred at 50 - 60° C overnight. Solvent and excess epoxide was removed under reduced pressure, and the crude amino alcohol was redissolved in dry acetonitrile (40 mL) and 1,1'-carbonyldiimidazole (1.46 g, 9.0 mmol) was added. The mixture was stirred at ambient temperature overnight, and then the solvent was removed under reduced pressure. The residue was partitioned between ethyl acetate (70 mL) and 3% aqueous citric acid (100 mL), the layers are separated, and the organic phase was washed

with 3% aqueous citric acid (3 x 100 mL), water and saline, dried over anhydrous magnesium sulfate and concentrated under reduced pressure. The product mixture was then purified by silica gel chromatography, eluting with ethanol/methylene chloride (2/98), and the appropriate fractions are pooled and concentrated to give the title compound, MS (ESI+) for $C_{16}H_{19}N_2O_5F$ m/z 339 (M+H)⁺.

Step 2: Preparation of (5R)-(-)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxamide.

A mixture of of ethyl (5R)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 1, 0.22 g, 0.65 mmol) in 2M ammonia in methanol (5 - 6 mL) was heated in a closed vial at 60° C for approximately 1 hour. The resulting mixture was cooled to ambient temperature and concentrated under reduced pressure, and the crude product was recrystallized from methanol to give the title compound, MS (ESI+) for $C_{14}H_{16}N_3O_4F$ m/z 310 (M+H)⁺.

EXAMPLE 451 (5R)-(-)-3-[3,5-Difluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxamide



Step 1: Preparation of butyl (5R)-3-[3,5-difluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxylate

A solution of 3,5-difluoro-4-(4-morpholinyl)aniline (See US Patent No. 5,688,792, 2.00 g, 9.34 mmol), butyl

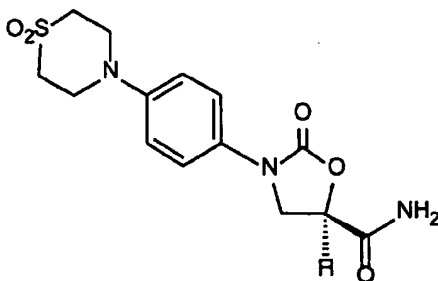
2(R)-glycidate (2.02 g, 14.0 mmol) and lithium triflate (2.18 g, 14.0 mmol) in acetonitrile (37 mL) was stirred at 60°C under N₂ for 48 hrs. Solvent was removed under reduced pressure, and the residue was taken up in MeOH/CH₂Cl₂ (5/95, 100 mL), washed with water (2 x 25 mL) and saline (25 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure. The residue was flushed through a Flash 40M 90 g silica gel cartridge with EtOAc/CH₂Cl₂ (10/90), and the appropriate fractions were pooled and concentrated to give the amino alcohol intermediate [*R_f* = 0.10 by TLC, EtOAc/hexanes (25/75)] which was contaminated with residual starting material. This intermediate (2.5 g in two lots) was then dissolved in acetonitrile (total of 70 mL) and treated with 1,1'-carbonyldiimidazole (total of 1.69 g, 10.4 mmol, 1.5 equiv.), and the reaction mixtures were stirred at ambient temperature for 6 days and then concentrated under reduced pressure. The product mixtures were each taken up in CH₂Cl₂ (50 mL), washed with 0.1M hydrochloric acid (2 x 20 mL) and saline (10 mL), dried over anhydrous sodium sulfate, concentrated under reduced pressure and chromatographed on a Flash 40M 90 g silica gel cartridge with EtOAc/CH₂Cl₂ (5/95). Those fractions with an *R_f* = 0.16 by TLC (EtOAc/hexanes, 25/75) were pooled and concentrated to give the title compound, mp 99-100°C; MS (ESI+) for C₁₈H₂₂N₂O₅F₂ *m/z* 385 (M+H)⁺.

Step 2: Preparation of (5R)-(-)-3-[3,5-difluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinecarboxamide

The butyl (5R)-3-[3,5-difluoro-4-(4-morpholinyl)-phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 1, 350 mg, 0.910 mmol) was treated with 7N ammonia in methanol (9.1 mL) under N₂, and the mixture was stirred at ambient

temperature for 30 mins. The reaction mixture was then concentrated under reduced pressure, and the residue was recrystallized from EtOAc/hexanes to give the title compound, mp 181-183°C; MS (ESI+) for $C_{14}H_{15}N_3O_4F_2$ m/z 328 (M+H)⁺; $[\alpha]^{25}_D$ -23 (c 0.94, DMSO).

EXAMPLE 452 (5R)-(-)-3-[4-(Thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide



Step 1: Preparation of butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate

A solution of 4-(4-thiomorpholinyl)aniline (See *Med. Chem. Res.* **1999**, 9(3), 149-161, 2.60 g, 13.4 mmol), butyl 2(R)-glycidate (2.89 g, 20.1 mmol) and lithium triflate (3.13 g, 20.1 mmol) in acetonitrile (54 mL) was stirred at 60° C under N₂ for 36 hrs. Solvent was removed under reduced pressure, and the residue was taken up in MeOH/CH₂Cl₂ (5/95, 100 mL), washed with water (50 mL) and saline (20 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure. The residue was flushed through a Flash 40M 90 g silica gel cartridge with EtOAc/CH₂Cl₂ (15/85), and the appropriate fractions were pooled and concentrated to give the amino alcohol intermediate [R_f = 0.19 by TLC, EtOAc/hexanes (25/75)] which was contaminated with the dialkylated by-product. This intermediate (4.25 g) was then dissolved in acetonitrile (125 mL) and treated with 1,1'-carbonyl-

diimidazole (3.05 g, 18.8 mmol, 1.5 equiv.), and the reaction mixture was stirred at ambient temperature for approximately 3 days and then concentrated under reduced pressure. The product mixture was taken up in CH_2Cl_2 (100 mL), washed with 0.1M hydrochloric acid (3 x 25 mL) and saline (25 mL), dried over anhydrous sodium sulfate, concentrated under reduced pressure and chromatographed on a Flash 40M 90 g silica gel cartridge with EtOAc/ CH_2Cl_2 (15/85). Those fractions with an $R_f = 0.57$ by TLC (EtOAc/hexanes, 50/50) were pooled and concentrated to give the title compound, mp 95.5-98°C; MS (ESI+) for $\text{C}_{18}\text{H}_{24}\text{N}_2\text{O}_4\text{S}$ m/z 365 (M+H)⁺.

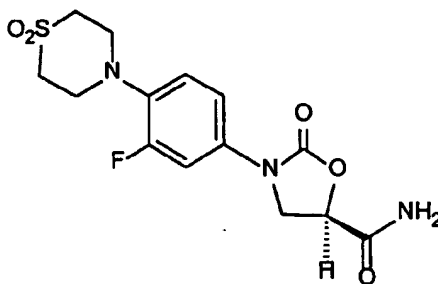
Step 2: Preparation of butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide

A solution of butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 1, 600 mg, 1.65 mmol) in water/acetone (25/75, 32 mL) under N_2 was treated with N-methylmorpholine N-oxide (483 mg, 4.12 mmol) and osmium tetroxide (2.5 wt% in tBuOH, 1.03 mL, 0.0825 mmol), and the mixture was stirred at ambient temperature for 18 hrs. The reaction was then treated with ½-saturated aqueous sodium bisulfite (20 mL), diluted with water (20 mL) and extracted with CH_2Cl_2 (2 x 50 mL). The combined organic phase was washed with saline (20 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure, and the product mixture was chromatographed on a Flash 40S 40 g silica gel cartridge with MeOH/ CH_2Cl_2 (1/99). Pooling and concentration of those fractions with an $R_f = 0.5$ by TLC (MeOH/ CHCl_3 , 5/95) followed by recrystallization from EtOAc/hexanes gave the title compound, mp 100-102°C; MS (ESI+) for $\text{C}_{18}\text{H}_{24}\text{N}_2\text{O}_6\text{S}$ m/z 397 (M+H)⁺.

Step 3: Preparation of (5R)-(-)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide

The butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide (Step 2, 400 mg, 1.01 mmol) was treated with 7N ammonia in methanol (10.1 mL) under N₂, and the mixture was stirred at ambient temperature for 25 mins. The resulting slurry was then diluted with diethyl ether (5 mL) and filtered to give the title compound, mp 226-228°C; MS (ESI-) for C₁₄H₁₇N₃O₅S m/z 338 (M-H)⁻; [α]²⁵_D -22 (c 0.94, DMSO).

EXAMPLE 453 (5R)-(-)-3-[3-Fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide



Step 1: Preparation of butyl (5R)-3-[3-fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate

Following the general procedure of EXAMPLE 452, Step 1, and making non-critical variations but substituting 3-fluoro-4-(4-thiomorpholinyl)aniline (See *J. Med. Chem.* **1996**, 39(3), 680-685) for 4-(4-thiomorpholinyl)aniline, the title compound was obtained, mp 128-130°C; MS (ESI+) for C₁₈H₂₃N₂O₄FS m/z 383 (M+H)⁺.

Step 2: Preparation of butyl (5R)-3-[3-fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide

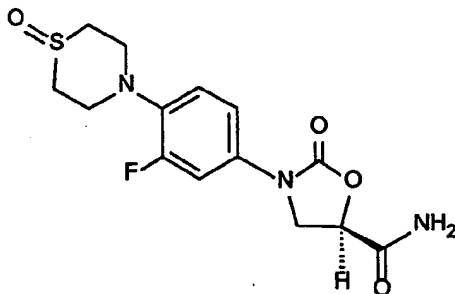
Following the general procedure of EXAMPLE 452,

Step 2, and making non-critical variations but substituting butyl (5R)-3-[3-fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 1) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate, the title compound was obtained, mp 169-171° C (dec.); MS (ESI+) for C₁₈H₂₃N₂O₆FS m/z 415 (M+H)⁺.

Step 3: Preparation of (5R)-(-)-3-[3-fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide

Following the general procedure of EXAMPLE 452, Step 3, and making non-critical variations but substituting butyl (5R)-3-[3-fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide (Step 2) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide, the title compound was obtained, mp 245-247° C (dec.); MS (ESI+) for C₁₄H₁₆N₃O₅FS m/z 358 (M+H)⁺; [α]²⁵_D -22 (c 0.92, DMSO).

EXAMPLE 454 (5R)-(-)-3-[3-Fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S-oxide



Step 1: Preparation of butyl (5R)-3-[3-fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S-oxide

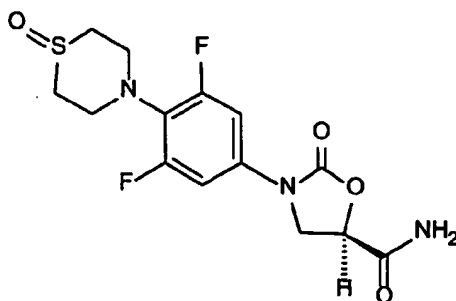
A solution of sodium periodate (265 mg, 1.24 mmol)

in water (5 mL) was treated with a slurry of butyl (5R)-3-[3-fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (EXAMPLE 20, Step 1, 450 mg, 1.18 mmol) in methanol (24 mL), and the mixture was stirred at ambient temperature for 23 hrs. The resulting mixture was diluted with water (20 mL) and saline (20 mL) and extracted with CH₂Cl₂ (2 x 40 mL), and the combined organic phase was dried over anhydrous sodium sulfate and concentrated under reduced pressure. The residue was chromatographed on a Flash 40S 40 g silica gel cartridge, eluting with a gradient of MeOH/CH₂Cl₂ (1/99 - 2/98), and those fractions with an R_f = 0.37 by TLC (MeOH/CHCl₃, 5/95) were pooled and concentrated and the residue recrystallized from EtOAc/hexanes to give the title compound, mp 128-129°C; MS (ESI+) for C₁₈H₂₃N₂O₅FS m/z 399 (M+H)⁺.

Step 2: Preparation of (5R)-(-)-3-[3-fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S-oxide

Following the general procedure of EXAMPLE 452, Step 3, and making non-critical variations, but substituting (5R)-3-[3-fluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S-oxide (Step 1) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide and purifying the product by trituration and filtration from hot acetonitrile, the title compound was obtained, mp 264 - 266°C (dec.); MS (ESI+) for C₁₄H₁₆N₃O₄FS m/z 342 (M+H)⁺; [α]_D²⁵ -22 (c 0.39, DMSO).

EXAMPLE 455 (5R)-(-)-3-[3,5-Difluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S-oxide



Step 1: Preparation of 4-(2,6-Difluoro-4-nitrophenyl)thiomorpholine

A solution of 3,4,5-trifluoronitrobenzene (5.00 g, 28.24 mmol) in acetonitrile (60 mL) was cooled to 0° C and treated with *N, N*-diisopropylethylamine (7.38 mL, 42.35 mmol) followed by thiomorpholine (2.98 mL, 29.65 mmol). The ice bath was removed and the reaction mixture stirred at room temperature under nitrogen for approximately 24 hrs, during which additional thiomorpholine (0.1 eq) was added. The solvent was removed under reduced pressure, and the residue was diluted with ethyl acetate, washed with 1N hydrochloric acid (until the washings were acidic), saturated aqueous sodium bicarbonate and saline, dried over anhydrous sodium sulfate, and concentrated under reduced pressure to give the title compound, mp 104-105° C.

Step 2: Preparation of 3,5-difluoro-4-(4-morpholinyl)aniline

A solution of 4-(2,6-difluoro-4-nitrophenyl)thiomorpholine (3.00 g, 11.5 mmol) in tetrahydrofuran (60 mL) was added to a Parr bottle containing a mixture of Raney nickel (1 g) in water (15 mL) under N₂, and the reaction mixture was shaken on a Parr apparatus under a hydrogen atmosphere at 40 psi for 24 hrs. The catalyst was removed by filtration through Celite, rinsing with

tetrahydrofuran and water, the filtrate was diluted with water (50 mL) and EtOAc (50 mL), and the layers were separated. The organic phase was washed with saline (25 mL), dried over anhydrous magnesium sulfate and concentrated under reduced pressure, and the resulting oil was chromatographed on a Flash 40M 90 g silica gel cartridge eluting with EtOAc/heptane (15/85). Pooling and concentration of those fractions with an $R_f = 0.19$ by TLC (EtOAc/hexanes, 25/75) gave the title compound, mp $85-86^\circ\text{C}$; MS (ESI+) for $\text{C}_{10}\text{H}_{12}\text{N}_2\text{F}_2\text{S}$ m/z 231 ($\text{M}+\text{H}$) $^+$.

Step 3: Preparation of butyl (5R)-3-[3,5-difluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidine-carboxylate

Following the general procedure of EXAMPLE 452, Step 1, and making non-critical variations but substituting 3,5-difluoro-4-(4-morpholinyl)aniline (Step 2) for 4-(4-thiomorpholinyl)aniline, the title compound was obtained, mp $102-103^\circ\text{C}$; MS (ESI+) for $\text{C}_{18}\text{H}_{22}\text{N}_2\text{O}_4\text{F}_2\text{S}$ m/z 401 ($\text{M}+\text{H}$) $^+$.

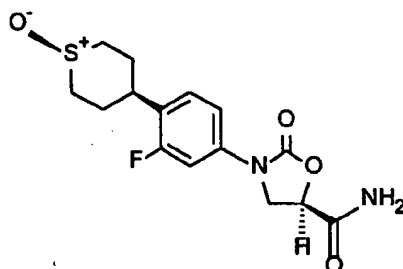
Step 4: Preparation of butyl (5R)-3-[3,5-difluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidine-carboxylate S-oxide

Following the general procedure of EXAMPLE 454, Step 1, and making non-critical variations but substituting butyl (5R)-3-[3,5-difluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 3) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate, the title compound was obtained, mp $114-116^\circ\text{C}$; MS (ESI+) for $\text{C}_{18}\text{H}_{22}\text{N}_2\text{O}_5\text{F}_2\text{S}$ m/z 417 ($\text{M}+\text{H}$) $^+$.

Step 5: Preparation of (5R)-(-)-3-[3,5-Difluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidine-carboxamide S-oxide

Following the general procedure of EXAMPLE 452, Step 3, and making non-critical variations, but substituting (5R)-3-[3,5-difluoro-4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S-oxide (Step 4) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide, the title compound was obtained, mp 273-276° C (dec.); MS (ESI+) for C₁₄H₁₅N₃O₄F₂S m/z 360 (M+H)⁺; [α]_D²⁵ -24 (c 0.96, DMSO).

EXAMPLE 456 (5R)-3-[3-Fluoro-4-(cis-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide



Step 1: Preparation of 2-methylpropyl [3-fluoro-4-(tetrahydro-2H-thiopyran-4-yl)phenyl]carbamate

A solution of 2-methylpropyl [3-fluoro-4-(tetrahydro-4-hydroxy-2H-thiopyran-4-yl)phenyl]carbamate (See *Org. Proc. Res. Dev.* 2001, 5, 80-83, 4.00 g, 12.2 mmol) in trifluoroacetic acid (19 mL, 244 mmol) under N₂ was treated with triethylsilane (5.85 mL, 36.6 mmol) dropwise, stirred for 1 hr, and then added dropwise to saturated aqueous potassium carbonate (250 mL) with vigorous stirring. The mixture was extracted with diethyl ether (200 mL), and the organic phase was washed with water (2 x 50 mL) and saline (50 mL), dried over anhydrous magnesium sulfate and concentrated under reduced pressure. Trituration and filtration from

diethyl ether/hexanes or ethyl acetate/hexanes gave the title compound, ^1H NMR (CDCl_3 , 400 MHz) δ 7.26 (m, 1H), 7.11 (t, 1H), 6.97 (m, 1H), 6.59 (bs, 1H), 3.95 (d, 2H), 2.85 (m, 3H), 2.68 (m, 2H), 2.09 (m, 2H), 1.98 (m, 1H), 1.84 (m, 2H), 0.96 (d, 6H).

Step 2: Preparation of 3-fluoro-4-(tetrahydro-2H-thiopyran-4-yl)benzenamine

A mixture of 2-methylpropyl [3-fluoro-4-(tetrahydro-2H-thiopyran-4-yl)phenyl]carbamate (Step 1, 2.12 g, 6.81 mmol) in ethylene glycol (25 mL) was treated with aqueous potassium hydroxide (45%, 25.5 g, 204 mmol) with vigorous stirring, and the mixture was heated to 95°C and stirred at this temperature for 18 hrs. The reaction was then cooled to ambient temperature and diluted with water (50 mL) and CH_2Cl_2 (100 mL), the layers were separated, and the organic phase was washed with water (50 mL) and saline (20 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure. The crude product was chromatographed on a Flash 40M 90 g silica gel cartridge with a gradient of EtOAc/heptane (15/85-25/75), and those fractions with an $R_f = 0.32$ by TLC (EtOAc/hexanes, 25/75) were pooled and concentrated to give the title compound, mp $96-98^\circ\text{C}$; MS (ESI+) for $\text{C}_{11}\text{H}_{14}\text{NFS}$ m/z 212 ($\text{M}+\text{H}$) $^+$.

Step 3: Preparation of butyl (5R)-3-[3-fluoro-4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate

Following the general procedure of EXAMPLE 452, Step 1, and making non-critical variations but substituting 3-fluoro-4-(tetrahydro-2H-thiopyran-4-yl)benzenamine (Step 2) for 4-(4-thiomorpholinyl)aniline, the title compound was obtained, mp $98-100^\circ\text{C}$; MS (ESI+)

for $C_{19}H_{24}NO_4FS$ m/z 382 $(M+H)^+$.

Step 4: Preparation of butyl (5R)-3-[3-fluoro-4-(*cis*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate

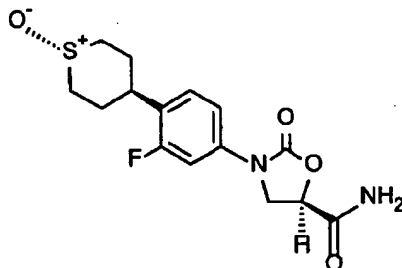
Following the general procedure of EXAMPLE 454, Step 1, and making non-critical variations but substituting butyl (5R)-3-[3-fluoro-4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 3) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate, a mixture of the *cis* and *trans* sulfoxide products in approximately a 2:1 ratio was obtained. Subsequent purification by preparative HPLC (Chiralcel OD column, EtOH eluent) followed by recrystallization from EtOAc/hexanes provided the title compound, mp 142-145° C; MS (ESI+) for $C_{19}H_{24}NO_5FS$ m/z 398 $(M+H)^+$.

Step 5: Preparation of (5R)-3-[3-fluoro-4-(*cis*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide

Following the general procedure of EXAMPLE 452, Step 3, and making non-critical variations, but substituting butyl (5R)-3-[3-fluoro-4-(*cis*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 4) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate *S,S*-dioxide and purifying the product by trituration and filtration from hot methanol and acetonitrile, the title compound was obtained, mp 279-281° C (dec.); MS (ESI+) for $C_{15}H_{17}N_2O_4FS$ m/z 341 $(M+H)^+$.

EXAMPLE 457 (5R)-3-[3-Fluoro-4-(*trans*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidine-

carboxamide



Step 1: Preparation of butyl (5R)-3-[3-fluoro-4-(trans-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate

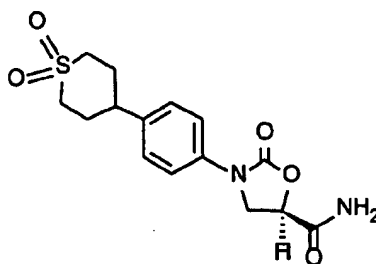
Following the general procedure of EXAMPLE 454, Step 1, and making non-critical variations but substituting butyl (5R)-3-[3-fluoro-4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (EXAMPLE 23, Step 3) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate, a mixture of the *cis* and *trans* sulfoxide products in approximately a 2:1 ratio was obtained. Subsequent purification by preparative HPLC (Chiralcel OD column, EtOH eluent) followed by recrystallization from EtOAc/hexanes provided the title compound, mp 133-136°C; MS (ESI+) for C₁₉H₂₄NO₅FS *m/z* 398 (M+H)⁺.

Step 2: Preparation of (5R)-3-[3-fluoro-4-(trans-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide

Following the general procedure of EXAMPLE 452, Step 3, and making non-critical variations, but substituting butyl (5R)-3-[3-fluoro-4-(trans-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 1) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide, the title compound was obtained, mp 201-203°C; MS (ESI+)

for $C_{15}H_{17}N_2O_4FS$ m/z 341 $(M+H)^+$.

EXAMPLE 458 (5R)-(-)-3-[4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide



Step 1: Preparation of 2-methylpropyl 4-bromophenylcarbamate

A solution of 4-bromoaniline (10.0 g, 58.1 mmol) in tetrahydrofuran (230 mL) was treated with sodium bicarbonate (9.77 g, 116.2 mmol) and water (100 mL) followed by isobutyl chloroformate (8.3 mL, 63.9 mmol), and the mixture was stirred at ambient temperature for 2 hrs. The mixture was then diluted with water (100 mL) and EtOAc (100 mL), the layers were separated, and the organic phase was washed with water (50 mL) and saline (50 mL), dried over anhydrous magnesium sulfate and concentrated under reduced pressure. Recrystallization of the resulting solid from EtOAc/hexanes provided the title compound, mp 95-96°C; MS (ESI-) for $C_{11}H_{14}NO_2Br$ m/z 270 $(M-H)^-$.

Step 2: Preparation of 2-methylpropyl [4-(tetrahydro-4-hydroxy-2H-thiopyran-4-yl)phenyl]carbamate

A solution of 2-methylpropyl 4-bromophenylcarbamate (Step 1, 10.0 g, 36.7 mmol) in anhydrous tetrahydrofuran (184 mL) at -78°C under N_2 was treated n-butyllithium (1.6M in hexanes, 48.2 mL, 77.1 mmol) dropwise over 20 mins, and the mixture was stirred at -78°C for 45 mins.

The resulting slurry was then treated with a solution of tetrahydro-2H-thiopyran-4-one (4.48 g, 38.5 mmol) in anhydrous tetrahydrofuran (38 mL) dropwise over 5 mins to give an opaque mixture which was allowed to slowly warm to 0° C with stirring over approximately 2.5 hrs. The mixture was then quenched by the slow addition of saturated aqueous ammonium chloride (75 mL), water (75 mL) was added, and the layers were separated. The organic phase was washed with water (50 mL) and saline (50 mL), dried over anhydrous magnesium sulfate and concentrated under reduced pressure, and the crude product was recrystallized from EtOAc/hexanes to give the title compound, mp 150-151 °C; MS (ESI-) for C₁₆H₂₃NO₃S m/z 308 (M-H)⁻.

Step 3: Preparation of 2-methylpropyl [4-(tetrahydro-2H-thiopyran-4-yl)phenyl]carbamate

Following the general procedure of EXAMPLE 456, Step 1, and making non-critical variations but substituting 2-methylpropyl [4-(tetrahydro-4-hydroxy-2H-thiopyran-4-yl)phenyl]carbamate (Step 2) for 2-methylpropyl [3-fluoro-4-(tetrahydro-4-hydroxy-2H-thiopyran-4-yl)phenyl]carbamate and purifying the product by recrystallization from EtOAc/hexanes, the title compound was obtained, mp 126-128° C; MS (ESI-) for C₁₆H₂₃NO₂S m/z 292 (M-H)⁻.

Step 4: Preparation of 4-(tetrahydro-2H-thiopyran-4-yl)benzenamine

Following the general procedure of EXAMPLE 456, Step 2, and making non-critical variations but substituting 2-methylpropyl [4-(tetrahydro-2H-thiopyran-4-yl)phenyl]carbamate (Step 3) for 2-methylpropyl [3-fluoro-4-(tetrahydro-2H-thiopyran-4-yl)phenyl]carbamate,

the title compound was obtained, mp 103-106° C; MS (ESI+) for C₁₁H₁₅NS m/z 194 (M+H)⁺.

Step 5: Preparation of butyl (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate

Following the general procedure of EXAMPLE 452, Step 1, and making non-critical variations but substituting 4-(tetrahydro-2H-thiopyran-4-yl)benzenamine (Step 4) for 4-(4-thiomorpholinyl)aniline, the title compound was obtained, mp 94-96° C; MS (ESI+) for C₁₉H₂₅NO₄S m/z 364 (M+H)⁺.

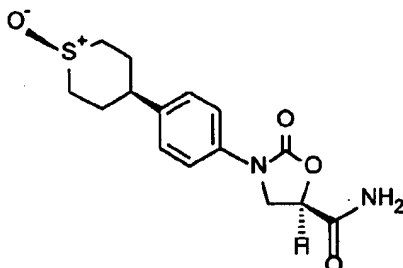
Step 6: Preparation of butyl (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide

Following the general procedure of EXAMPLE 452, Step 2, and making non-critical variations but substituting butyl (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 5) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate, the title compound was obtained, mp 176-179° C; MS (ESI+) for C₁₉H₂₅NO₆S m/z 396 (M+H)⁺.

Step 7: Preparation of (5R)-(-)-3-[4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide

Following the general procedure of EXAMPLE 452, Step 3, and making non-critical variations, but substituting butyl (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide (Step 6) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide, the title compound was obtained, mp 211-212° C; MS (ESI-) for C₁₅H₁₈N₂O₅S m/z 337 (M-H)⁻; [α]_D²⁵ -19 (c 0.95, DMSO).

EXAMPLE 459 (5R)-3-[4-(*cis*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide



Step 1: Preparation of butyl (5R)-3-[4-(*cis*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate

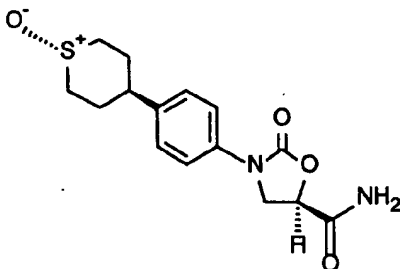
Following the general procedure of EXAMPLE 459, Step 1, and making non-critical variations but substituting butyl (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (EXAMPLE 458, Step 5) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate, a mixture of the *cis* and *trans* sulfoxide products in approximately a 2:1 ratio was obtained. Subsequent purification by preparative HPLC (Chiralcel OD column, EtOH eluent) followed by recrystallization from EtOAc/hexanes provided the title compound, mp 127-130° C; MS (ESI+) for C₁₉H₂₅NO₅S *m/z* 380 (M+H)⁺.

Step 2: Preparation of (5R)-3-[4-(*cis*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide

Following the general procedure of EXAMPLE 452, Step 3, and making non-critical variations, but substituting butyl (5R)-3-[4-(*cis*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 1) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide, the title

compound was obtained, mp 269-273° C (dec.); MS (ESI-) for C₁₅H₁₈N₂O₄S m/z 321 (M-H)⁻.

EXAMPLE 460 (5R)-3-[4-(*trans*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide



Step 1: Preparation of butyl (5R)-3-[4-(*trans*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate

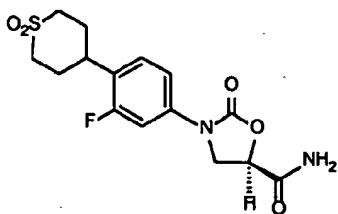
Following the general procedure of EXAMPLE 454, Step 1, and making non-critical variations but substituting butyl (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (EXAMPLE 458, Step 5) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate, a mixture of the *cis* and *trans* sulfoxide products in approximately a 2:1 ratio was obtained. Subsequent purification by preparative HPLC (Chiralcel OD column, EtOH eluent) followed by recrystallization from EtOAc/hexanes provided the title compound, mp 115-117° C; MS (ESI+) for C₁₉H₂₅NO₅S m/z 380 (M+H)⁺.

Step 2: Preparation of (5R)-3-[4-(*trans*-tetrahydro-1-oxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxamide

Following the general procedure of EXAMPLE 452, Step 3, and making non-critical variations, but substituting butyl (5R)-3-[4-(*trans*-tetrahydro-1-oxido-

2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate (Step 1) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide, the title compound was obtained, mp 174-175°C; MS (ESI-) for $C_{15}H_{18}N_2O_4S$ m/z 321 (M-H)⁻.

EXAMPLE 461 (5R)-3-[4-(Tetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxamide S,S-dioxide-Method B



Step 1: Preparation of 2-methylpropyl [4-(tetrahydro-1,1-dioxido-2H-thiopyran-4-yl)-3-fluorophenyl]carbamate

Following the general procedure of EXAMPLE 452, Step 2, and making non-critical variations but substituting 2-methylpropyl [4-(tetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]carbamate (EXAMPLE 456, Step 1) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate, the title compound is obtained, ¹H NMR (CDCl₃) (δ) 7.36 (bd, 1H), 7.14 (t, 1H), 6.99 (m, 1H), 6.70 (bs, 1H), 3.95 (d, 2H), 3.14 (m, 4H), 3.07 (m, 1H), 2.38 (m, 2H), 2.18 (m, 2H), 1.95 (m, 1H), 0.96 (d, 6H).

Step 2: Preparation of (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-5-hydroxymethyl-2-oxazolidinone S,S-dioxide

A solution of 2-methylpropyl [4-(tetrahydro-1,1-dioxido-2H-thiopyran-4-yl)-3-fluorophenyl]carbamate (Step 1, 2.00 g, 5.82 mmol) in dry tetrahydrofuran at -78°C under N₂ was treated with n-butyllithium (1.6M in

hexanes, 3.82 mL, 6.11 mmol) dropwise and stirred at -78° C for 45 mins. Then, (R)-glycidyl butyrate (0.86 mL, 6.11 mmol) was added dropwise, and the resulting mixture was stirred at -78° C for 30 mins and at ambient temperature for 2.75 days. The reaction mixture was then quenched with saturated aqueous ammonium chloride (15 mL), diluted with water (15 mL) and EtOAc (25 mL), and the layers were separated. The organic phase was diluted with small amounts of methylene chloride, methanol and tetrahydrofuran in an attempt to dissolve a precipitate that had formed and was then washed with water (20 mL) and saline (20 mL), dried over anhydrous sodium sulfate and concentrated under reduced pressure. The resulting solid was then diluted with hot methanol/EtOAc (1:5, 100 mL), followed by hexanes (150 mL), and filtered to give the title compound, ¹H NMR (DMSO) (δ) 7.51 (dd, 1H), 7.37 (t, 1H), 7.30 (m, 1H), 5.21 (t, 1H), 4.70 (m, 1H), 4.07 (t, 1H), 3.81 (dd, 1H), 3.65 (m, 1H), 3.55 (m, 1H), 3.37 (m, 2H), 3.20 (m, 1H), 3.10 (m, 2H), 2.15 (m, 2H), 2.03 (m, 2H).

Step 3: Preparation of methyl (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidine-carboxylate S,S-dioxide

A mixture of ruthenium(III) trichloride (29 mg, 0.139 mmol, 4 mol%), sodium periodate (3.21 g, 15.0 mmol), and sodium dihydrogen phosphate monohydrate (2.60 g, 18.8 mmol) in water/methylene chloride (10:1, 21 mL) was treated with a suspension of (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-5-hydroxymethyl-2-oxazolidinone S,S-dioxide (Step 2, 1.20 g, 3.49 mmol) in acetonitrile (35 mL), and the resulting mixture was stirred at ambient temperature for

24 hrs and was then adjusted to pH 2 with aqueous hydrochloric acid (1M) and extracted with methylene chloride (3 x 100 mL). The combined organic phase was dried over anhydrous sodium sulfate and concentrated under reduced pressure, and the residue was flushed through a Flash 40M 90 g silica gel cartridge with a gradient of CH₃CN/CH₂Cl₂ (20/80-40/60) containing 1% formic acid. Those fractions containing the carboxylic acid intermediate (920 mg total) were pooled and concentrated, and the white solid was dissolved in methanol (25 mL) and treated with 3 to 4 drops of concentrated sulfuric acid. The resulting mixture was stirred at ambient temperature for 4 hrs and was then concentrated under reduced pressure and chromatographed on a Flash 40S 40 g silica gel cartridge, eluting with a gradient of MeOH/CH₂Cl₂ (1/99-2/98). Pooling and concentration of those fractions with an R_f = 0.53 by TLC (MeOH/CH₂Cl₂, 5/95) provided the title compound as an amorphous solid, ¹H NMR (CDCl₃) (δ) 7.50 (dd, 1H), 7.25 (t, 1H), 7.15 (m, 1H), 5.09 (dd, 1H), 4.27 (t, 1H), 4.13 (dd, 1H), 3.88 (s, 3H), 3.15 (m, 4H), 3.11 (m, 1H), 2.40 (m, 2H), 2.19 (m, 2H).

Step 4: Preparation of (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidine-carboxamide S,S-dioxide

Following the general procedure of EXAMPLE 452, Step 3, and making non-critical variations but substituting methyl (5R)-3-[4-(tetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide (Step 3) for butyl (5R)-3-[4-(thiomorpholin-4-yl)phenyl]-2-oxo-5-oxazolidinecarboxylate S,S-dioxide and purifying the product by trituration and filtration from

(5% MeOH/CH₂Cl₂)/Et₂O, the title compound was obtained, mp 231-234° C (dec.); MS (ESI-) for C₁₅H₁₇FN₂O₅S *m/z* 355 (M-H)⁻.

Additional Examples of amide-containing compounds that can be used in the present invention are disclosed below.

EXAMPLE 462: N-{3-[3-fluoro-4-(5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 463: N-{3-[3-fluoro-4-(6(S)-methyl-5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 464: N-{3-[3-fluoro-4-(6(R)-methyl-5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 465: N-{3-[3-fluoro-4-(5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-propionamide,

EXAMPLE 466: cyclopropanecarboxylic acid {3-[3-fluoro-4-(5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-amide,

EXAMPLE 467: N-{3-[3-fluoro-4-(5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-thioacetamide,

EXAMPLE 468: N-{3-[3-fluoro-4-(5-thioxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-thioacetamide,

EXAMPLE 469: N-{3-[3-fluoro-4-(5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 470: N-{3-[3-fluoro-4-(5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5-ylmethyl}-3-(4-hydroxy-phenyl)-acrylamide,

EXAMPLE 471: N-{3-[4-(6,6-dimethyl-5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-3-fluoro-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 472: N-{3-[3-fluoro-4-(6-ethyl-5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 473: N-{3-[3-fluoro-4-(9-oxo-5-thia-7,8-diazaspiro[3.5]non-6-en-6-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 474: N-{3-[3-fluoro-4-(5-oxo-6-phenyl-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 475: N-{3-[3-fluoro-4-(5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-2-hydroxy-acetamide,

EXAMPLE 476: N-{3-[3-fluoro-4-(5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-3-oxo-butyramide,

EXAMPLE 477: N-{3-[3-fluoro-4-(5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-

ylmethyl}-3-(4-fluoro-phenyl)-3-oxo-propionamide,

EXAMPLE 478: *N*-(3-[3-fluoro-4-(5-oxo-5,6-dihydro-4*H*-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl)-3-[4-(hydroxyimino-methyl)-phenyl]-acrylamide,

EXAMPLE 479: *N*-(3-[3-fluoro-4-(5-oxo-5,6-dihydro-4*H*-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl)-3-[4-(methoxyimino-methyl)-phenyl]-acrylamide,

EXAMPLE 480: *N*-(3-[4-(6,6-dimethyl-1,1,5-trioxo-1,4,5,6-tetrahydro-1⁸⁶-[1,3,4]thiadiazin-2-yl)-3-fluoro-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl)-acetamide,

EXAMPLE 481: *N*-(3-[3-fluoro-4-(4-methyl-5-oxo-5,6-dihydro-4*H*-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl)-acetamide,

EXAMPLE 482: *N*-(3-[3-fluoro-4-(5-oxo-6-propyl-5,6-dihydro-4*H*-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl)-acetamide,

EXAMPLE 483: *N*-(3-[3-fluoro-4-(6-isopropyl-5-oxo-5,6-dihydro-4*H*-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl)-acetamide,

EXAMPLE 484: *N*-(3-[3-fluoro-4-(6-fluoro-5-oxo-5,6-dihydro-4*H*-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl)-acetamide,

EXAMPLE 485: *N*-(3-[3-fluoro-4-(6-hydroxymethyl-5-oxo-5,6-dihydro-4*H*-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl)-acetamide,

EXAMPLE 486: N-{3-[3-fluoro-4-(6-(2-hydroxy-ethyl)-5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 487: N-(3-{3-fluoro-4-(6-(4-hydroxy-phenyl)-5-oxo-5,6-dihydro-4H-[1,3,4]thiadiazin-2-yl)-phenyl}-2-oxo-oxazolidin-5(S)-ylmethyl)-acetamide,

EXAMPLE 488: N-{3-[4-(6,6-dimethyl-1,5-dioxo-1,4,5,6-tetrahydro-1⁸⁴-[1,3,4]-thiadiazin-2-yl)-3-fluoro-phenyl]-2-oxo-oxazolidin-5(S)-ylmethyl}-acetamide,

EXAMPLE 489: N-[[(5S)-3-[4-(3,4-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]-2,2,2-trifluoroacetamide,

EXAMPLE 490: N-[[(5S)-3-[4-(3,4-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide,

EXAMPLE 491: N-[[(5S)-3-[4-(3,4-dihydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]ethanethioamide,

EXAMPLE 492: N-[[(5S)-3-[4-(3,4-dihydro-1-oxido-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide,

EXAMPLE 493: N-[[(5S)-3-[4-(3,4-dihydro-1,1-dioxido-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide,

EXAMPLE 494: N-[[(5S)-3-[4-(3,4-dihydro-1-oxido-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-

oxazolidinyl)methyl]ethanethioamide,

EXAMPLE 495: N-[[(5S)-3-[4-(2,3-dihydro-1,1-dioxido-4H-1,4-thiazin-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 496: N-[[(5S)-3-[4-(2,3-dihydro-1,1-dioxido-4H-1,4-thiazin-4-yl)-3,5-difluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 497: N-[[(5S)-3-[4-(3,4-dihydro-1,1-dioxido-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroacetamide,

EXAMPLE 498: N-[[(5S)-3-[4-(3,4-dihydro-1,1-dioxido-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroethanethioamide,

EXAMPLE 499: 2,2-Dichloro-N-[[(5S)-3-[4-(3,4-dihydro-1,1-dioxido-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 500: N-[[(5S)-3-[4-(3,4-dihydro-4-hydroxy-1,1-dioxido-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 501: N-[[(5S)-3-[3-Fluoro-4-(4-fluoro-3,4-dihydro-1,1-dioxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 502: N-[[(5S)-3-[4-(3,4-dihydro-1,1-dioxido-2H-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 503: N-[[(5S)-3-[4-(3,4-dihydro-1,1-dioxido-2H-

thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroacetamide,

EXAMPLE 504: 2,2-dichloro-*N*-[[(5*S*)-3-[4-(3,4-dihydro-1,1-dioxido-2*H*-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 505: [[(5*S*)-3-[4-(3,4-dihydro-1,1-dioxido-2*H*-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroethanethioamide,

EXAMPLE 506: *N*-[[(5*S*)-3-[4-(3,4-dihydro-1,1-dioxido-2*H*-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]propionamide,

EXAMPLE 507: *N*-[[(5*S*)-3-[4-(3,4-dihydro-1,1-dioxido-2*H*-thiopyran-4-yl)-3,5-difluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 508: *N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroethanethioamide,

EXAMPLE 509: 2,2-dichloro-*N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 510: *N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroacetamide,

EXAMPLE 511: *N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroethanethioamide,

EXAMPLE 512: 2,2-dichloro-*N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 513: *N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroacetamide,

EXAMPLE 514: *N*-[[(5*S*)-3-[4-(2,3-Dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3,5-difluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroethanethioamide,

EXAMPLE 515: 2,2-dichloro-*N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3,5-difluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide, or

EXAMPLE 516: *N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3,5-difluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroacetamide.

EXAMPLE 517: *N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 518: 2,2-dichloro-*N*-[[(5*S*)-3-[4-(3,4-dihydro-1,1-dioxido-2*H*-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 519: 2,2-dichloro-*N*-[[(5*S*)-3-[4-(3,4-dihydro-1,1-dioxido-2*H*-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 520: 2,2-dichloro-*N*-[[(5*S*)-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 521: 2,2-dichloro-*N*-[[*(5S)*-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 522: *N*-[[*(5S)*-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3,5-difluorophenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 523: *N*-[[*(5S)*-3-[4-(3,4-dihydro-1,1-dioxido-2*H*-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroacetamide,

EXAMPLE 524: *N*-[[*(5S)*-3-[4-(3,4-dihydro-1,1-dioxido-2*H*-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroethanethioamide,

EXAMPLE 525: *N*-[[*(5S)*-3-[4-(3,4-dihydro-1,1-dioxido-2*H*-thiopyran-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroacetamide,

EXAMPLE 526: *N*-[[*(5S)*-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroethanethioamide,

EXAMPLE 527: *N*-[[*(5S)*-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroacetamide,

EXAMPLE 528: *N*-[[*(5S)*-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]-2,2-difluoroethanethioamide, or

EXAMPLE 529: 2,2-dichloro-*N*-[[*(5S)*-3-[4-(2,3-dihydro-1,1-dioxido-4*H*-1,4-thiazin-4-yl)-3,5-difluorophenyl]-2-

oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 530: (S)-N-[[3-[3-fluoro-4-(1,2,3,4,6,7-hexahydro-5-oxo-1,4-diazepin-1-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 531: (S)-N-[[3-[3-fluoro-4-(1,2,3,4,6,7-hexahydro-5-oxo-1,4-diazepin-1-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide,

EXAMPLE 532: (S)-N-[[3-[3-fluoro-4-(1,2,3,4,6,7-hexahydro-4-methyl-5-oxo-1,4-diazepin-1-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide, or

EXAMPLE 533: (S)-N-[[3-[3-fluoro-4-(1,2,3,4,6,7-hexahydro-4-methyl-5-oxo-1,4-diazepin-1-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]thioacetamide,

EXAMPLE 534: N-[[[(5S)-3-[3-fluoro-4-(tetrahydro-1,1-dioxido-2-(2-propenyl)-2H-1,2-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 535: N-[[[(5S)-3-[3-fluoro-4-(tetrahydro-1,1-dioxido-2H-1,2-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 536: N-[[[(5S)-3-[3-fluoro-4-(tetrahydro-1,1-dioxido-2H-1,2-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]ethanethioamide,

EXAMPLE 537: N-[[[(5S)-3-[4-fluoro-4-(tetrahydro-2-methyl-1,1-dioxido-2H-1,2-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]ethanethioamide,

EXAMPLE 538: N-[[[(5S)-3-[4-(2,2-dioxido-1,2-oxathian-5-

yl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]ethanethioamide,

EXAMPLE 539: N-[[[(5S)-3-[4-(1,1-dioxido-4-isothiazolidinyl)-3-fluorophenyl]-2-oxo-5-oxazolidinyl)methyl]ethanethioamide, or

EXAMPLE 540: N-[[[(5 S)-3-[3-fluoro-4-(tetrahydro-2-methyl-1,1-dioxido-2H-1,2-thiazin-4-yl)phenyl]-2-oxo-5-oxazolidinyl)methyl]acetamide,

EXAMPLE 541: N-([(5S)-3-[(2R)-1-(2-fluoroethyl)-2-methyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,

EXAMPLE 542: N-([(5S)-3-[(2R)-1-glycoloyl-2-methyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,

EXAMPLE 543: N-([(5S)-3-[(2R)-1-glycoloyl-2-methyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,

EXAMPLE 544: N-([(5S)-3-[(2R)-1-formyl-2-methyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,

EXAMPLE 545: N-([(5S)-3-[(2R)-1-formyl-2-methyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl]propanamide,

EXAMPLE 546: N-([(5S)-3-[(2R)-1-formyl-2-methyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl]ethanethioamide,

EXAMPLE 547: N-((5S)-3-[(2R)-1-(2-methoxyacetyl)-2-methyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 548: N-((5S)-3-[(2R)-1-acetyl-2-methyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 549: N-[(5S)-3-[(2R)-2-methyl-1-[(methylamino)carbothioyl]-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,

EXAMPLE 550: N-((5S)-3-[(2R)-1-glycoloyl-2-methyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide,

EXAMPLE 551: N-[[5S)-3-[(2R)-1-formyl-2-methyl-1,2,3,4-tetrahydro-6-quinolinyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,

EXAMPLE 552: N-[[5S)-3-[(2R)-1-glycoloyl-2-methyl-1,2,3,4-tetrahydro-6-quinolinyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,

EXAMPLE 553: N-((5S)-3-[(2R)-1-formyl-2-methyl-1,2,3,4-tetrahydro-6-quinolinyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 554: N-((5S)-3-[(2R)-1-formyl-2-methyl-1,2,3,4-tetrahydro-6-quinolinyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide,

EXAMPLE 555: N-[[5S)-3-[(3R)-4-Formyl-3-methyl-3,4-dihydro-2H-1,4-benzoxazin-7-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide,

EXAMPLE 556: N-((5S)-3-[(3R)-4-Formyl-3-methyl-3,4-dihydro-2H-1,4-benzoxazin-7-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 557: N-((5S)-3-[(3R)-4-Formyl-3-methyl-3,4-dihydro-2H-1,4-benzoxazin-7-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide,

EXAMPLE 558: N-((5S)-3-[(2R)-2-(fluoromethyl)-1-formyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 559: N-([(5R)-3-(2(+)-methyl-2,3-dihydro-1-benzothien-5-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide, or

EXAMPLE 560: N-([(5S)-3-[2-(1,1-dimethylethyl)-1-formyl-2,3-dihydro-1H-indol-5-yl]-2-oxo-5-oxazolidinyl)methyl]ethanethioamide,

EXAMPLE 561: N-([(5S)-3-(1-Methyl-2,2-dioxo-2,3-dihydro-1H-2,1-benzisothiazol-5-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 562: N-((5S)-3-[1-(2-Fluoroethyl)-2,2-dioxo-2,3-dihydro-1H-2,1-benzisothiazol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 563: N-((5S)-3-[1-(2-Nitriloethyl)-2,2-dioxo-2,3-dihydro-1H-2,1-benzisothiazol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 564: N-((5S)-3-[1-(2-Methoxyethyl)-2,2-dioxo-2,3-dihydro-1H-2,1-benzisothiazol-5-yl]-2-oxo-1,3-

oxazolidin-5-yl)methyl)acetamide, or

EXAMPLE 565: N-(((5S)-3-[1-(2-Fluoroethyl)-2,2-dioxo-2,3-dihydro-1H-2,1-benzisothiazol-5-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide,

EXAMPLE 566: (-)-N-(((5S)-3-[2-formyl-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-5-oxazolidinyl)methyl)acetamide,

EXAMPLE 567: (-)-N-(((5S)-3-[2-[(acetyloxy)acetyl]-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-5-oxazolidinyl)methyl)acetamide,

EXAMPLE 568: (-)-N-(((5S)-3-[2-[(hydroxy)acetyl]-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-5-oxazolidinyl)methyl)acetamide,

EXAMPLE 569: (+)-N-(((5S)-3-[2-formyl-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-5-oxazolidinyl)methyl)ethanethioamide, or

EXAMPLE 570: (+)-N-(((5S)-3-[2-[(hydroxy)acetyl]-1,2,3,4-tetrahydro-6-isoquinolinyl]-2-oxo-5-oxazolidinyl)methyl)ethanethioamide,

EXAMPLE 571: (+)-N-(((5S)-3-[2-formyl-1,2,3,4-tetrahydro-7-isoquinolinyl]-2-oxo-5-oxazolidinyl)methyl)ethanethioamide, or

EXAMPLE 572: (+)-N-(((5S)-3-[2-[(hydroxy)acetyl]-1,2,3,4-tetrahydro-7-isoquinolinyl]-2-oxo-5-oxazolidinyl)methyl)ethanethioamide,

EXAMPLE 573: (-)-N-(((5S)-3-(3,4-dihydro-1H-2-benzopyran-6-yl)-2-oxo-5-oxazolidinyl)methyl)acetamide,

EXAMPLE 574: (+)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzopyran-6-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide,

EXAMPLE 575: (-)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzothiopyran-6-yl)-2-oxo-5-oxazolidinyl]methyl]acetamide,

EXAMPLE 576: (+)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzothiopyran-6-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide, or

EXAMPLE 577: (+)-N-[[(5S)-3-(3,4-dihydro-2,2-dioxido-1H-2-benzothiopyran-6-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide,

EXAMPLE 578: (+)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzopyran-7-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide,

EXAMPLE 579: (-)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzothiopyran-7-yl)-2-oxo-5-oxazolidinyl]methyl]acetamide,

EXAMPLE 580: (+)-N-[[(5S)-3-(3,4-dihydro-1H-2-benzothiopyran-7-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide,

EXAMPLE 581: (+)-N-[[(5S)-3-(3,4-dihydro-2,2-dioxido-1H-2-benzothiopyran-7-yl)-2-oxo-5-oxazolidinyl]methyl]ethanethioamide, or

EXAMPLE 582: N-[[(5S)-3-(3,4-dihydro-2-oxido-1H-2-benzothiopyran-7-yl)-2-oxo-5-

oxazolidinyl)methyl)acetamide,

EXAMPLE 583: N-([(5S)-3-(3-formyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 584: N-([(5S)-3-(3-glycoloyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 585: N-([(5S)-3-(3-glycoloyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide,

EXAMPLE 586: N-([(5S)-3-(3-acetyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 587: N-([(5S)-3-(3-benzoyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 588: N-([(5S)-3-[3-(5-amino-1,3,4-thiadiazol-2-yl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 589: N-([(5S)-3-[3-(methylsulfonyl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 590: N-([(5S)-3-[3-(5-methylthio-1,3,4-thiadiazol-2-yl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 591: N-([(5S)-3-[3-(5-methyl-1,3,4-thiadiazol-2-

yl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 592: N-(((5S)-3-{3-(phenyl)acetyl-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 593: N-(((5S)-3-{3-[5-(formylamino)-1,3,4-thiadiazol-2-yl]-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 594: N-[5-(7-{(5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl}-1,2,4,5-tetrahydro-3H-3-benzazepin-3-yl)-1,3,4-thiadiazol-2-yl]-2-hydroxyacetamide,

EXAMPLE 595: N-(((5S)-3-{3-[(4-iodophenyl)acetyl]-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 596: N-(((5S)-3-{3-[(3-trifluoromethyl)phenyl)acetyl]-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 597: N-(((5S)-3-{3-[(4-trifluoromethyl)phenyl)acetyl]-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl}-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 598: N-(((5S)-2-oxo-3-[3-(5-oxopentanoyl)-1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 599: N-(((5S)-2-oxo-3-[3-(5-oxohexanoyl)-

1,2,4,5-tetrahydro-1H-3-benzazepin-7-yl]-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 600: N-([(5S)-3-(2-formyl-1,3,4,5-tetrahydro-1H-2-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 601: N-([(5S)-3-(2-glycoloyl-1,3,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 602: N-([(5S)-3-(2-acetyl-1,3,4,5-tetrahydro-1H-2-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 603: 7-((5S)-5-[(acetylamino)methyl]-2-oxo-1,3-oxazolidin-3-yl)-N-phenyl-1,3,4,5-tetrahydro-2H-2-benzazepine-2-carboxamide,

EXAMPLE 604: N-([(5S)-3-(1-formyl-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide,

EXAMPLE 605: N-([(5S)-3-(1-formyl-2,3,4,5-tetrahydro-1H-1-benzazepin-7-yl)-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide,

EXAMPLE 606: N-([(5S)-2-oxo-3-(1,2,4,5-tetrahydro-3-benzothiepin-7-yl)-5-oxazolidinyl)methyl)acetamide,

EXAMPLE 607: N-([(5S)-2-oxo-3-(1,2,4,5-tetrahydro-3,3-dioxido-3-benzothiepin-7-yl)-5-oxazolidinyl)methyl)acetamide,

EXAMPLE 608: N-[[[(5S)-2-oxo-3-(1,2,4,5-tetrahydro-3-benzothiepin-7-yl)-5-oxazolidinyl]methyl]ethanethioamide,

EXAMPLE 609: N-[[[(5S)-2-oxo-3-(1,2,4,5-tetrahydro-3,3-dioxido-3-benzothiepin-7-yl)-5-oxazolidinyl]methyl]ethanethioamide

EXAMPLE 610: N-({(5S)-3-[3-fluoro-4-(1-imino-1-oxido-1^λ₄, 4-thiazinan-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide,

EXAMPLE 611: N-({(5S)-3-[3-fluoro-4-(1-imino-1-oxido-1^λ₄, 4-thiazinan-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide,

EXAMPLE 612: N-({(5S)-3-[3-fluoro-4-(1-imino-1-oxido-1^λ₄, 4-thiazinan-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)cyclopropanecarbothioamide,

EXAMPLE 613: N-({(5S)-3-[3-fluoro-4-(1-imino-1-oxido-hexahydro-1^λ₄-thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide (E)-isomer,

EXAMPLE 614: N-({(5S)-3-[3-fluoro-4-(1-imino-1-oxido-hexahydro-1^λ₄-thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide (E)-isomer,

EXAMPLE 615: N-({(5S)-3-[3-fluoro-4-(1-imino-1-oxido-hexahydro-1^λ₄-thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide (E)-isomer,

EXAMPLE 616: N-({(5S)-3-[3-fluoro-4-(1-imino-1-oxido-hexahydro-1^λ₄-thiopyran-4-yl)phenyl]-2-oxo-1,3-

oxazolidin-5-yl)methyl)cyclopropanecarbothioamide (E)-isomer,

EXAMPLE 617: N-(((5S)-3-[3-fluoro-4-(1-imino-1-oxido-hexahydro-1^λ4-thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide (Z)-isomer,

EXAMPLE 618: N-(((5S)-3-[3-fluoro-4-(1-imino-1-oxido-hexahydro-1^λ4-thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)ethanethioamide (Z)-isomer,

EXAMPLE 619: N-(((5S)-3-[3-fluoro-4-(1-imino-1-oxido-hexahydro-1^λ4-thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide (Z)-isomer,

EXAMPLE 620: N-(((5S)-3-[3-fluoro-4-(1-imino-1-oxido-hexahydro-1^λ4-thiopyran-4-yl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)cyclopropanethioamide (Z)-isomer,

EXAMPLE 621: N-(((5S)-3-[3-fluoro-4-[1-(acetyl-imino)-1-oxido-hexahydro-1^λ4-thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)acetamide, Z-isomer

EXAMPLE 622: N-(((5S)-3-[3-fluoro-4-[1-(methyl-imino)-1-oxido-hexahydro-1^λ4-thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

EXAMPLE 623: N-(((5S)-3-[3-fluoro-4-[1-(acetyl-imino)-1-oxido-hexahydro-1^λ4-thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

EXAMPLE 624: N-(((5S)-3-[3-fluoro-4-[1-(ethyl-imino)-1-oxido-hexahydro-1^λ4-thiopyran-4-yl]phenyl]-2-oxo-1,3-

oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

EXAMPLE 625: N-(((5S)-3-[3-fluoro-4-[1-
[(phenylmethyl)imino]-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

EXAMPLE 626: N-(((5S)-3-[3-fluoro-4-[1-[(3-phenylpropyl)imino]-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

EXAMPLE 627: N-(((5S)-3-[3-fluoro-4-(1-
[(methylamino)carbonyl]imino)-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

EXAMPLE 628: N-(((5S)-3-[3-fluoro-4-(1-
[(methoxycarbonyl)imino]-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

EXAMPLE 629: N-(((5S)-3-[3-fluoro-4-(1-
[(ethoxycarbonyl)methyl]imino)-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

EXAMPLE 630: N-(((5S)-3-[3-fluoro-4-(1-[[[4-nitrophenyl]amino]carbonyl]imino)-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

EXAMPLE 631: N-(((5S)-3-[3-fluoro-4-[1-
[(aminocarbonyl)imino]-1-oxido-1,3-oxazolidin-5-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide, Z-isomer,

yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide, Z-isomer,

EXAMPLE 632: N-(((5S)-3-[3-fluoro-4-[1-[[(aminocarbonyl)methyl]imino]-1-oxido-1^λ₄-thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide, Z-isomer,

EXAMPLE 633: N-(((5S)-3-[3-fluoro-4-[1-[(2-hydroxyethyl)imino]-1-oxido-1^λ₄-thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide, Z-isomer,

EXAMPLE 634: N-(((5S)-3-[3-fluoro-4-[1-(methylimino)-1-oxido-1^λ₄, 4-thiazinan-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 635: N-(((5S)-3-[3-fluoro-4-[1-(methylimino)-1-oxido-1^λ₄, 4-thiazinan-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]cyclopropanecarbothioamide,

EXAMPLE 636: N-(((5S)-3-[3-fluoro-4-[1-[(methoxycarbonyl)imino]-1-oxido-1^λ₄, 4-thiazinan-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 637: N-(((5S)-3-[3-fluoro-4-[1-[(methoxycarbonyl)imino]-1-oxido-1^λ₄, 4-thiazinan-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]cyclopropanecarbothioamide,

EXAMPLE 638: N-(((5S)-3-[3-fluoro-4-[1-(methylimino)-1-oxido-1^λ₄-thiopyran-4-yl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]cyclopropanecarbothioamide, Z-

isomer,

EXAMPLE 639: N-[(5S)-3-(3-fluoro-4-[1-
[(methoxycarbonyl)imino]-1-oxido-1,3-oxazolidin-5-yl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]cyclopropanecarbothioamide, Z-isomer,

EXAMPLE 640: N-[(5S)-3-(3-fluoro-4-[1-(methylimino)-1-oxido-1,3-oxazolidin-5-yl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]cyclopropanecarbothioamide, E-isomer,

EXAMPLE 641: N-[(5S)-3-(3-fluoro-4-[1-(methylimino)-1-oxido-1,3-oxazolidin-5-yl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide, E-isomer,

EXAMPLE 642: N-[(5S)-3-(3-fluoro-4-[1-
[(phenylmethoxy)carbonyl]imino]-1-oxido-1,3-oxazolidin-5-yl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide, Z-isomer,

EXAMPLE 643: N-[(5S)-3-(3-fluoro-4-[1-
[(benzylamino)carbonyl]imino]-1-oxido-1,3-oxazolidin-5-yl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]acetamide, Z-isomer,

EXAMPLE 644: N-[(5S)-3-(3-fluoro-4-[4-[2-(methylsulfinyl)acetyl]-1-piperazinyl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 645: N-[(5S)-3-(3-fluoro-4-[4-[2-(methylsulfonyl)acetyl]-1-piperazinyl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 646: N-([(5S)-3-(3-fluoro-4-{4-[2-(methylsulfonyl)acetyl]-1-piperazinyl}phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 647: N-([(5S)-3-[4-(4-ethanethiolyl-1-piperazinyl)-3-fluorophenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 648: N-([(5S)-3-[4-(4-cyano-1-piperazinyl)-3-fluorophenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 649: N-([(5S)-3-(3-fluoro-4-{4-[2-(methylaminocarbonyloxy)acetyl]-1-piperazinyl}phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 650: N-([(5S)-3-(3-fluoro-4-{4-[2-{2-methoxyethoxy}carbonyloxy]acetyl]-1-piperazinyl}phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 651: N-([(5S)-3-{3-fluoro-4-[4-((2S)-2-hydroxy-3-methoxypropanoyl)-1-piperazinyl]phenyl}-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 652: N-([(5S)-3-{3-fluoro-4-[4-((2S)-2,3-dimethoxypropanoyl)-1-piperazinyl]phenyl}-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 653: N-([(5S)-3-{3-fluoro-4-[4-((2S)-3-hydroxy-2-methoxypropanoyl)-1-piperazinyl]phenyl}-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 654: N-([(5S)-3-[3-fluoro-4-(4-acetoacetyl-1-piperazinyl)phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

EXAMPLE 655: N-(((5S)-3-[3-fluoro-4-(4-pyruvoyl-1-piperazinyl) phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide,

EXAMPLE 656: N-(((5S)-3-[3-fluoro-4-[4-(3-hydroxypropanoyl)-1-piperazinyl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide,

EXAMPLE 657: N-(((5S)-3-(3-fluoro-4-[4-[(1-hydroxycyclopropyl)carbonyl]-1-piperazinyl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide,

EXAMPLE 658: N-(((5S)-3-(3-fluoro-4-[4-(2-phenoxyacetyl)-1-piperazinyl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide,

EXAMPLE 659: N-(((5S)-3-[3-fluoro-4-[4-((2S)-2,3-dihydroxypropanoyl)-1-piperazinyl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide,

EXAMPLE 660: N-(((5S)-3-[3-fluoro-4-[4-((2R)-2,3-dihydroxypropanoyl)-1-piperazinyl]phenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide,

EXAMPLE 661: N-(((5S)-3-(3-fluoro-4-[4-[3-hydroxy-2-(hydroxymethyl)-2-methylpropanoyl]-1-piperazinyl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide,

EXAMPLE 662: N-(((5S)-3-(3-fluoro-4-[4-((2S)-2-hydroxy-3-phenylpropanoyl)-1-piperazinyl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl)propanethioamide,

EXAMPLE 663: N-(((5S)-3-(3-fluoro-4-[4-((2R)-2-hydroxy-3-phenylpropanoyl)-1-piperazinyl]phenyl)-2-oxo-1,3-

oxazolidin-5-yl) methyl]propanethioamide,

EXAMPLE 664: N-[((5S)-3-{3-fluoro-4-[4-((2R)-2-hydroxy-2-phenylacetyl)-1-piperazinyl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide,

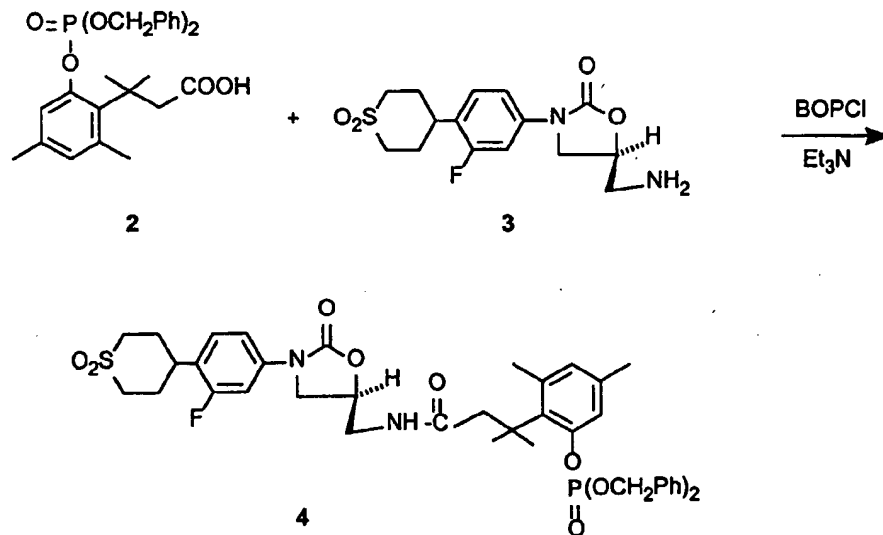
EXAMPLE 665: N-[((5S)-3-{3-fluoro-4-[4-((2S)-2-acetoxy-2-phenylacetyl)-1-piperazinyl]phenyl)-2-oxo-1,3-oxazolidin-5-yl)methyl]propanethioamide.

In order to more fully illustrate the nature of the invention and the manner of practicing the same, the following synthesis Example is presented.

SYNTHESIS EXAMPLE

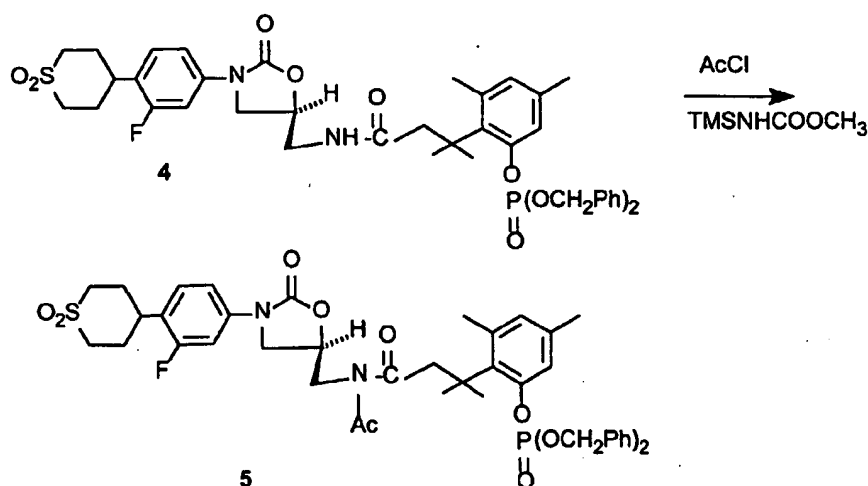
2-{3-[Acetyl({ (5S)-3-[4-(1,1-dioxidotetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-1,3-oxazolidin 5-yl)methyl)amino]-1,1-dimethyl-3-oxopropyl}-3,5-dimethylphenyl dihydrogen phosphate.

Step 1.



A stirred mixture of 2 (0.57 g, 1.18 mmol) (M.G. Nicolaou, C.-S. Yuan and R.T. Borchardt, *J. Org. Chem.* 1996, 61, 8636-8641), 3 (0.45 g, 1.19 mmol) (Case 6118.N CN1, Example 11, Step 1) and triethylamine (0.8 ml) in CH_2Cl_2 (60 ml), under nitrogen was cooled in an ice bath and treated with bis (2-oxo-3-oxazolidinyl)phosphinic chloride (0.456 g, 1.79 mmol). It was kept in the ice bath for 45 min and at ambient temperature (24°C) for 2 h 15 min and then concentrated in *vacuo*. The residue was mixed with EtOAc and washed with 5% aqueous citric acid and brine, dried (MgSO_4) and concentrated. Chromatography of the residue on silica gel with 2.5% MeOH - CH_2Cl_2 gave 0.88 g of 4: ^1H NMR (300 MHz, CDCl_3) δ 1.61, 1.65 (s, s, 6H), 2.08 (s, 3H), 2.15 (m, 2H), 2.37 (m, 2H), 2.48 (s, 3H), 2.56 (m, 2H), 3.13 (m, 6H), 3.35 (m, 3H), 4.28 (m, 1H), 5.12 (m, 4H), 6.66 (s, 1H), 6.98 (s, 1H), 7.13 (m, 3H), 7.36 (m, 11H); MS (ESI) m/z 807 ($\text{M}+\text{H}^+$), 829 ($\text{M}+\text{Na}^+$).

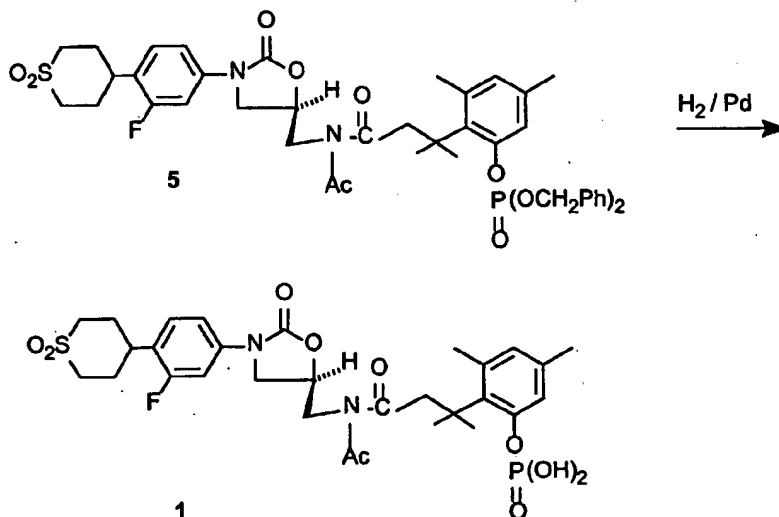
Step 2.



A stirred solution of 4 (0.85 g, 1.05 mmol) in methyl

trimethylsilylcarbamate (3 ml), under nitrogen was treated, dropwise with acetyl chloride (0.25 ml, 3.5 mmol) and kept at ambient temperature (24°C) for 3.5 h. It was then diluted with pentane to give a gum. The liquid was decanted and the residue was triturated twice with pentane and once with Et₂O to give a semisolid material that was chromatographed on silica gel with 30% EtOAc - CH₂Cl₂. The product amounted to 0.62 g of 5: ¹H NMR (300 MHz, CDCl₃) δ 1.55 (s, 3H), 1.62 (s, 3H), 2.16 (s, 3H), 2.20 (m, 1H), 2.23 (s, 3H), 2.42 (m, 2H), 2.57 (s, 3H), 3.17 (m, 5H), 3.52 (m, 5H), 3.87 (m, 2H), 4.61 (m, 1H), 5.05 (m, 4H), 6.79 (s, 1H), 6.98 (s, 1H), 7.11 (dd, 1H), 7.28 (m, 11H), 7.42 (dd, 1H); HRMS (FAB) calcd for C₄₄H₅₁FN₂O₁₀PS (M+H⁺), 849.2986, found 849.2988.

Step 3.



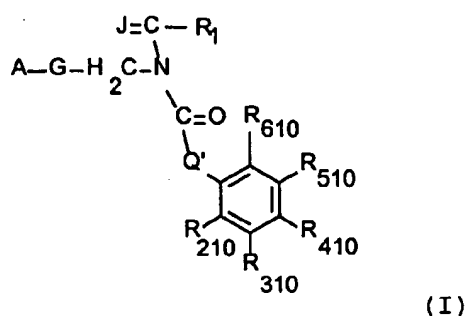
A mixture of 5 (0.62 g), 10% palladium-on-carbon catalyst (0.16 g) and THF (20 ml) was hydrogenated at atmospheric pressure for 80 min, filtered through celite and concentrated *in vacuo*. The resulting foam was triturated with Et₂O to give 0.419 g of 1, a white powder: mp 116-

124°C (dec); MS (ESI) m/z 627 (M+H⁺), 649 (M+Na⁺); HRMS (FAB) calcd for C₂₈H₃₇FN₂O₉PS (M+H⁺) 627.1941, found 627.1947.

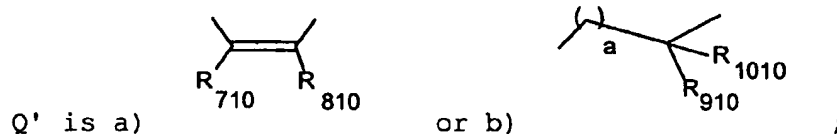
Although the present invention has been exemplified using oxazolidinone compounds, it is understood that any amide-containing compound can be made more water-soluble using the present invention. Moreover, although the foregoing invention has been described in some detail by way of illustration and example for purposes of clarity and understanding, it would be apparent to those skilled in the art that certain changes and modifications could be made without departing from the scope and spirit of the present invention. As such, the description and example should not be construed as limiting the scope of the invention.

What is claimed is:

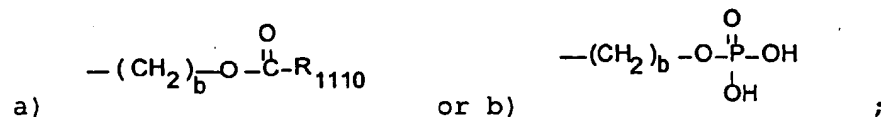
1. An oxazolidinone derivative of formula (I)



wherein J is O or S;



R210 is



R310, R410 and R510 each independently are

- a) H,
- b) C₁₋₄ alkyl,
- c) halogen,
- d) C₁₋₄ alkoxy,
- e) hydroxy,
- f) (CH₂)_cOP(O)(OH)₂,
- g) C₁₋₄ acyloxy, or
- h) C₁₋₄ alkyl substituted by halogen, hydroxy, acyloxy, NR₁₂₁₀R₁₃₁₀, or alkoxy;

R₆₁₀, R₇₁₀ and R₈₁₀ each independently are

- a) H,
- b) CH₃, or
- c) C₂H₅;

R₉₁₀ and R₁₀₁₀ each independently are

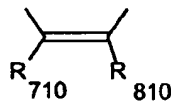
- a) H,
- b) CH₃,
- c) C₂H₅, or
- d) combine to form a C₃₋₅ cycloalkyl;

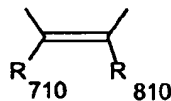
R₁₁₁₀ is H or C₁₋₆ alkyl;

R₁₂₁₀ and R₁₃₁₀ each independently are

- a) H,
- b) C₁₋₄ alkyl, or
- c) combine to form a heterocyclic ring;

wherein a is 0 or 1, b is 0 or 1, and c is 0 or 1, with

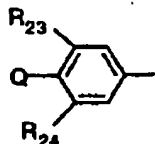


the proviso that when Q' is , b is 0 and a+b is 0 or 1;

R₁ is

- a) C₁₋₄ alkyl,
- b) C₂₋₄ alkenyl,
- c) OC₁₋₄ alkyl,
- d) C₃₋₆ cycloalkyl,
- e) C₁₋₄ alkyl substituted with 1-3F, 1-2Cl, CN, -COOC₁₋₄ alkyl or a C₃₋₆ cycloalkyl; or
- f) H

A is



R₄ is

- a) C₁₋₄ alkyl optionally substituted with one or more halos, OH, CN, NR₁₀R₁₁, or -CO₂R₁₃,
- b) C₂₋₄ alkenyl,
- c) -NR₁₆R₁₈,
- d) -N₃,
- e) -NHC(=O)R₇,
- f) -NR₂₀C(=O)R₇,
- g) -N(R₁₉)₂,
- h) -NR₁₆R₁₉, or
- i) -NR₁₉R₂₀,

R₅ and R₆ at each occurrence are the same or different and are

- a) C₁₋₂ alkyl, or
- b) R₅ and R₆ taken together are -(CH₂)_k-;

R₇ is C₁₋₄ alkyl optionally substituted with one or more halos;

R₁₀ and R₁₁ at each occurrence are the same or different and are

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₃ is

- a) H, or
- b) C₁₋₄ alkyl;

R₁₄ and R₁₅ at each occurrence are the same or different and are

- a) C₁₋₄ alkyl, or
- b) R₁₄ and R₁₅ taken together are -(CH)₁-;

R₁₆ is

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₇ is

- a) C₁₋₄ alkyl, or
- b) C₃₋₈ cycloalkyl;

R₁₈ is

- a) H,
- b) C₁₋₄ alkyl,
- c) C₂₋₄ alkenyl,
- d) C₃₋₄ cycloalkyl,
- e) -OR₁₃ or
- f) -NR₂₁R₂₂;

R₁₉ is

- a) Cl,
- b) Br, or
- c) I;

R₂₀ is a physiologically acceptable cation;

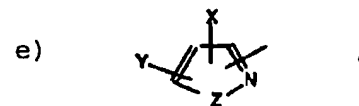
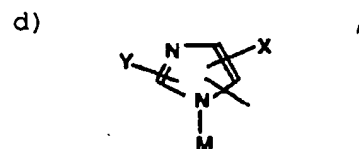
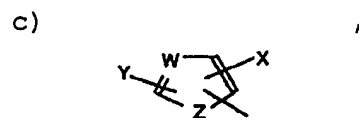
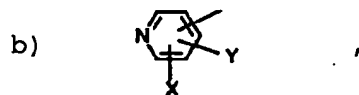
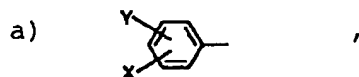
R₂₁ and R₂₂ at each occurrence are the same or different and are

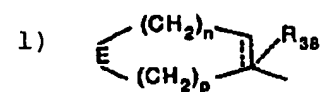
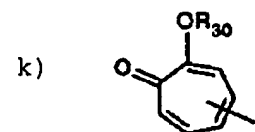
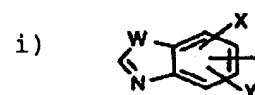
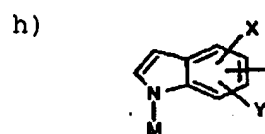
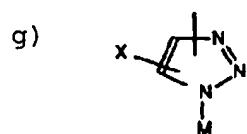
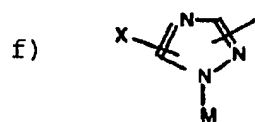
- a) H,
- b) C₁₋₄ alkyl, or
- c) -NR₂₁R₂₂ taken together are -(CH₂)_m-;

wherein R_{23} and R_{24} at each occurrence are the same or different and are

- a) H,
- b) F,
- c) Cl,
- d) C_{1-2} alkyl,
- e) CN
- f) OH,
- g) C_{1-2} alkoxy,
- h) nitro, or
- i) amino;

Q is

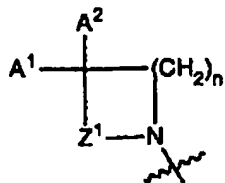




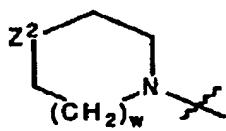
- m) a diaziny group optionally substituted with X and Y,
- n) a triazinyl group optionally substituted with X and Y,
- o) a quinolinyl group optionally substituted with X and Y,
- p) a quinoxaliny group optionally substituted with X and Y,

q) a naphthyridinyl group optionally substituted with X and Y,

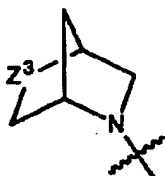
r)



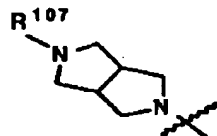
s)



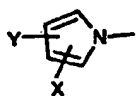
t)



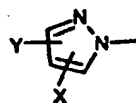
u)



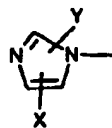
v)

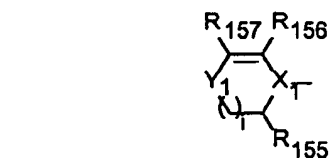
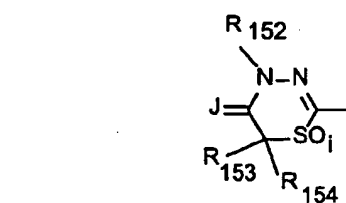
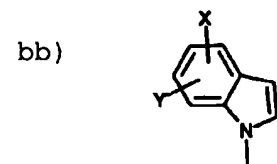
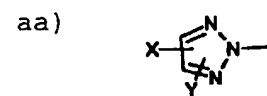
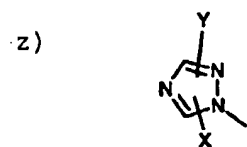
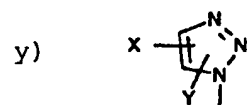


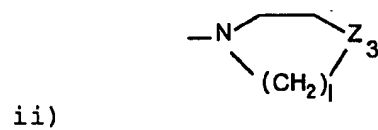
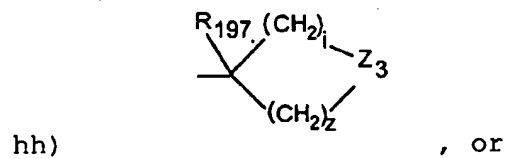
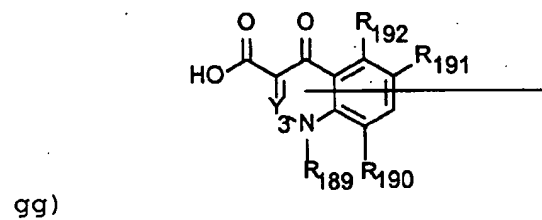
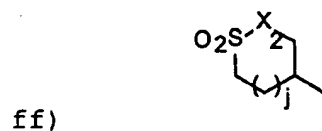
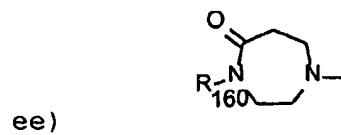
w)



x)

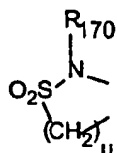
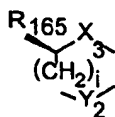




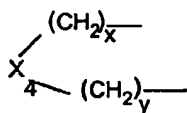


Q and R₂₄ taken together are





, or

wherein Z^1 is

- a) $-CH_2-$,
- b) $-CH(R^{104})-CH_2-$,
- c) $-C(O)-$, or
- d) $-CH_2CH_2CH_2-$;

wherein Z^2 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-N(R^{107})-$,
- d) $-OS-$,
- e) $-S-$, or
- f) $S(O)(NR_{190})$;


wherein Z^3 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-OS-$,
- d) $-S-$, or
- e) $S(O)(NR_{190})$

wherein A^1 is

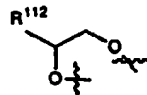

- a) H-, or
- b) CH_3 ;

wherein A^2 is

- a) H-,
- b) HO-,
- c) CH_3 -,
- d) CH_3O -,
- e) $R^{102}O-CH_2-C(O)-NH$ -,
- f) $R^{103}O-C(O)-NH$ -,
- g) (C_1-C_2) alkyl- $O-C(O)$ -,
- h) $HO-CH_2$ -,
- i) CH_3O-NH -,
- j) (C_1-C_3) alkyl- O_2C -,
- k) $CH_3-C(O)$ -,
- l) $CH_3-C(O)-CH_2$ -,
- m) , or

- n) 

A^1 and A^2 taken together are:

- a) , or
- b) $O=$
- c) ;

wherein R^{102} is

- a) H-,
- b) CH_3- ,
- c) phenyl- CH_2- , or
- d) $CH_3C(O)-$;

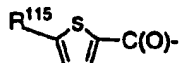
wherein R^{103} is

- a) (C_1-C_3) alkyl-, or
- b) phenyl-;

wherein R^{104} is

- a) H-, or
- b) HO-;

wherein R^{106} is

- a) $CH_3-C(O)-$,
- b) $H-C(O)-$,
- c) $Cl_2CH-C(O)-$,
- d) $HOCH_2-C(O)-$,
- e) CH_3SO_2- ,
- f)  ,

- g) $F_2CHC(O)-$,

- h)  ,

- i) $H_3C-C(O)-O-CH_2-C(O)-$,

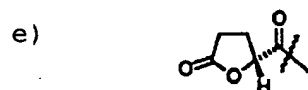
- j) $H-C(O)-O-CH_2-C(O)-$,

- k)  ,

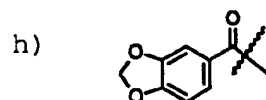
- l) $\text{HC}\equiv\text{C}-\text{CH}_2\text{O}-\text{CH}_2-\text{C}(\text{O})-$, or
 m) $\text{phenyl}-\text{CH}_2-\text{O}-\text{CH}_2-\text{C}(\text{O})-$;

wherein R^{107} is

- a) $\text{R}^{102}\text{O}-\text{C}(\text{R}^{110})(\text{R}^{111})-\text{C}(\text{O})-$,
 b) $\text{R}^{103}\text{O}-\text{C}(\text{O})-$,
 c) $\text{R}^{108}-\text{C}(\text{O})-$,



- f) $\text{H}_3\text{C}-\text{C}(\text{O})-(\text{CH}_2)_2-\text{C}(\text{O})-$,
 g) $\text{R}^{109}-\text{SO}_2-$,



- i) $\text{HO}-\text{CH}_2-\text{C}(\text{O})-$,
 j) $\text{R}^{116}-(\text{CH}_2)_2-$,
 k) $\text{R}^{113}-\text{C}(\text{O})-\text{O}-\text{CH}_2-\text{C}(\text{O})-$,
 l) $(\text{CH}_3)_2\text{N}-\text{CH}_2-\text{C}(\text{O})-\text{NH}-$,
 m) $\text{NC}-\text{CH}_2-$,
 n) $\text{F}_2-\text{CH}-\text{CH}_2-$, or
 o) $\text{R}^{150}\text{R}^{151}\text{NSO}_2$
 p) $\text{C}(\text{O})\text{CR}_{180}\text{R}_{180}\text{R}_{181}\text{OR}_{182}$,
 q) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})_i\text{CH}_3$,
 r) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})(\text{NR}_{183})\text{CH}_3$,
 s) $\text{C}(\text{S})\text{R}_{184}$,
 t) $\text{C}(\text{O})\text{CH}_2\text{OR}_{185}$,
 u) $\text{C}(\text{O})(\text{CH}_2)_j\text{C}(\text{O})\text{CH}_3$,
 v) $\text{C}(\text{O})(\text{CH}_2\text{OH})_2\text{CH}_3$,
 w) $\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{OR}_{189}$, or
 x) $-\text{CN}$;

wherein R^{108} is

- a) H-,
- b) (C_1-C_4) alkyl,
- c) aryl $-(CH_2)_p$,
- d) ClH_2C- ,
- e) Cl_2HC- ,
- f) FH_2C- ,
- g) F_2HC- ,
- h) (C_3-C_6) cycloalkyl, or
- i) $CNCH_2-$.

wherein R^{109} is

- a) alkyl C_1-C_4 ,
- b) $-CH_2Cl$
- c) $-CH_2CH=CH_2$,
- d) aryl, or
- e) $-CH_2CN$;

wherein R^{110} and R^{111} are independently

- a) H-,
- b) CH_3- ; or

wherein R^{112} is

- a) H-,
- b) $CH_3O-CH_2O-CH_2-$, or
- c) $HOCH_2-$;

wherein R^{113} is

- a) CH_3- ,
- b) $HOCH_2-$,
- c) $(CH_3)_2N$ -phenyl, or
- d) $(CH_3)_2N-CH_2-$;

wherein R^{114} is

- a) HO-,
- b) CH₃O-,
- c) H₂N-,
- d) CH₃O-C(O)-O-,
- e) CH₃-C(O)-O-CH₂-C(O)-O-,
- f) phenyl-CH₂-O-CH₂-C(O)-O-,
- g) HO-(CH₂)₂-O-,
- h) CH₃O-CH₂-O-(CH₂)₂-O-, or
- i) CH₃O-CH₂-O-;

wherein R^{115} is

- a) H-, or
- b) Cl-;

wherein R^{116} is

- a) HO-
- b) CH₃O-, or
- c) F;

wherein R^{150} and R^{151} are each H or alkyl C₁-C₄ or R^{150} and R^{151} taken together with the nitrogen atom to which each is attached form a monocyclic heterocyclic ring having from 3 to 6 carbon atoms;

R_{152} is

- a) H,
- b) C₁₋₄alkyl,
- c) C₁₋₄heteroalkyl,
- d) (CH₂)_iC(=O)OC₁₋₄alkyl,
- e) (CH₂)_iC(=O)C₁₋₄alkyl,
- f) aryl, or
- g) het¹;

R₁₅₃ and R₁₅₄ are independently

- a) H,
- b) F,
- c) C₁₋₄alkyl,
- d) C₃₋₆cycloalkyl,
- e) C₁₋₄heteroalkyl,
- f) aryl,
- g) het¹,
- h) OC₁₋₄alkyl,
- i) O(C=O)C₁₋₄alkyl,
- j) (C=O)OC₁₋₄alkyl; or
- k) R₁₅₃ and R₁₅₄ taken together are C₃₋₆cycloalkyl;

R₁₅₅ is

- a) H,
- b) F,
- c) C₁₋₄alkyl,
- d) OC₁₋₄alkyl,
- e) SC₁₋₄alkyl, or
- f) NHC₁₋₄alkyl;

R₁₅₆ is

- a) H,
- b) C₁₋₄alkyl,
- c) OC₁₋₄alkyl,
- d) SC₁₋₄alkyl, or
- e) NHC₁₋₄alkyl;

R₁₅₇ is

- a) -H,
- b) -F,
- c) -Cl,
- d) -NH₂,
- e) -OH,
- f) -CN,

- g) $-C_{1-4}alkyl$,
- h) $-OC_{1-4}alkyl$,
- i) $-C_{1-4}alkyl-W-C_{1-4}alkyl$,
- j) $-NHC_{1-4}alkyl$,
- k) $-(CH_2)_1C_{3-6}cycloalkyl$,
- l) $-C(=O)C_{1-4}alkyl$,
- m) $-OC(=O)C_{1-4}alkyl$,
- n) $-C(=O)OC_{1-4}alkyl$,
- o) $-S(O)_1C_{1-4}alkyl$, or
- p) $-C(=O)NHC_{1-4}alkyl$;

R₁₅₈ is

- a) $-H$,
- b) $-CH_3$,
- c) $-F$, or
- d) $-OH$;

R₁₅₉ is

- a) $-H$,
- b) $-C_{1-4}alkyl$,
- c) $-C(=O)C_{1-4}alkyl$,
- d) $-C(=O)NHC_{1-4}alkyl$,
- e) $-OC(=O)C_{1-4}alkyl$,
- f) $-C(=O)OC_{1-4}alkyl$, or
- g) $-S(O)_1C_{1-4}alkyl$, or
- h) $-C_{1-4}alkyl-W_1-C_{1-4}alkyl$;

R₁₆₀ is H, C₂₋₆ alkenyl, C₂₋₇ alkynyl, C₁₋₆ alkyl substituted with one or two of the following:

- a) F,
- b) Cl,
- c) CF₃,
- d) $-OH$,
- e) C₁₋₄alkoxy,
- f) $-CH_2C(=O)C_{1-4}alkyl$,

- g) $-\text{OC}(=\text{O})\text{N}(\text{R}_{161})_2$,
- h) $\text{C}_{1-4}\text{alkyl S}(\text{O})_n$, (wherein n is 0, 1 or 2),
- i) $-\text{CN}$,
- j) carboxy,
- k) $-\text{C}_{1-4}\text{alkoxycarbonyl}$,
- l) $-\text{C}(=\text{O})\text{N}(\text{R}_{161})_2$,
- m) $-\text{N}(\text{R}_{161})\text{SO}_2\text{C}_{1-4}\text{ alkyl}$,
- n) $-\text{N}(\text{R}_{161})\text{C}(=\text{O})\text{C}_{1-4}\text{ alkyl}$,
- o) $-\text{N}(\text{R}_{161})\text{C}(=\text{O})\text{N}(\text{R}_4)_2$,
- p) $-\text{N}(\text{R}_{161})\text{C}(=\text{O})\text{C}_{1-4}\text{ alkoxy}$,
- q) aryl, or
- r) Het_1 ;

R_{161} is

- a) H, or
- b) $\text{C}_{1-3}\text{ alkyl}$;

R_{162} is

- a) H,
- b) $\text{C}_{1-8}\text{ alkyl}$, optionally substituted with one to three F, Cl, OH, CN, NH_2 , $\text{OC}(=\text{O})\text{C}_{1-4}\text{alkyl}$, or $\text{OC}_{1-4}\text{ alkyl}$,
- c) $\text{C}_{3-8}\text{ alkene}$, or
- d) $\text{C}(=\text{O})\text{NR}_{163}\text{R}_{164}$;

R_{163} and R_{164} are independently

- a) H, or
- b) $\text{C}_{1-8}\text{ alkyl}$, optionally substituted with one to three F, Cl, OH, CN, or NH_2 ;

R_{165} is $\text{C}_{1-4}\text{ alkyl}$, optionally substituted with 1-3 R_{168} ;

R₁₆₆ is

- a) C₁₋₈ alkyl, optionally substituted with 1-3 halo, CN, NO₂, OH, SH or NH₂,
- b) -C(=O)R₁₆₇ or
- c) -C(=S)NHC₁₋₄ alkyl;

R₁₆₇ is

- a) H,
- b) C₁₋₆ alkyl, optionally substituted with OH, C₁₋₄ alkoxy, NH₂, SH or halo, or
- c) -CH₂OC(=O)C₁₋₄ alkyl;

R₁₆₈ is

- j) halo,
- k) -CN,
- l) -OH,
- m) -SH,
- n) -NH₂,
- o) -OR₁₆₉,
- p) -NHR₁₆₉,
- q) -N(R₁₆₉)₂, or
- r) -S(=O)_iR₁₆₉;

R₁₆₉ is

- g) C₁₋₆ alkyl,
- h) -C(=O)C₁₋₄ alkyl,
- i) -C(=O)O C₁₋₄ alkyl,
- j) -C(=O)NH₂,
- k) -C(=O)NH C₁₋₄ alkyl, or
- l) -SO₂ C₁₋₄ alkyl;

with the proviso that where j is 0, Y₂ is -CH₂-.

R₁₇₀ is

- a) H,
- b) C₁₋₁₂ alkyl, optionally substituted with phenyl or CN, or
- c) C₂₋₁₂ alkyl substituted with OH, SH, NH₂, -OC₁₋₆ alkyl, -NHC₁₋₆ alkyl, -NHCOC₁₋₆ alkyl, -NHSO₂C₁₋₆ alkyl, -S(O)_iC₁₋₆ alkyl, or one to three halo;

R₁₇₂ is

- a) H,
- b) C₁₋₈ alkyl,
- c) aryl,
- d) het₁,
- e) C(=W)R₁₇₄,
- f) C(=O)OR₁₇₅, or
- g) S(=O)_iR₁₇₆;

R₁₇₃ is

- a) H, or
- b) C₁₋₈ alkyl;

R₁₇₄ is

- a) H,
- b) aryl,
- c) het₁,
- d) NR₁₇₇R₁₇₈, or
- e) C₁₋₈ alkyl;

R₁₇₅ is

- a) C₁₋₈ alkyl,
- b) aryl, or
- c) het₁;

R₁₇₆ is

- a) aryl,
- b) het₁,
- c) NR₁₇₇R₁₇₈, or
- d) C₁₋₈ alkyl;

R₁₇₇ and R₁₇₈ are independently

- a) H,
- b) C₁₋₈ alkyl, or
- c) aryl;

R₁₈₀ and R₁₈₁ taken together form C₃₋₅ cycloalkyl;

R₁₈₂ is H, CH₃ or C₁₋₄ alkanoyl;

R₁₈₃ is H, C₁₋₄ alkyl, C₁₋₄ alkanoyl, -C(=O)NH-C₁₋₄ alkyl or -CO₂C₁₋₄ alkyl;

R₁₈₄ is C₁₋₄ alkyl, CH₂OR₁₈₆, S-C₁₋₄ alkyl, OC₁₋₄ alkyl, or NR₁₈₇R₁₈₈;

R₁₈₅ is phenyl, -CO₂-(CH₂)₂-OCH₃, -P(=O)(OH)₂, -C(=O)-NR₁₈₇R₁₈₆, or -C(=O)-(CH₂)₂-CO₂H;

R₁₈₆ is H, phenyl, benzyl, CH₃ or C(=O)CH₃;

R₁₈₇ and R₁₈₈ are independently H or C₁₋₃ alkyl; or R₁₈₇ and R₁₈₈ taken together form a 5- or 6-membered saturated heterocycle, wherein said saturated heterocycle may further contain one or two additional hetero-atoms selected from a group consisting of O, S(O)_n or NR₁₈₂;

R₁₈₉ is H, CH₃ or benzyl;

R₁₉₀ is

- a) H,
- b) C₁₋₄ alkyl,
- c) C(=O)C₁₋₄ alkyl,
- d) C(=O)OC₁₋₄ alkyl,
- e) C(=O)NHR₁₉₁, or
- f) C(=S)NHR₁₉₁;

R₁₉₁ is H, C₁₋₄ alkyl, or phenyl;

at each occurrence, alkyl in R₁₉₀ and R₁₉₁ is optionally substituted with one or more halo, CN, NO₂, phenyl, C₃₋₆ cycloalkyl, OR₁₉₂, C(=O)R₁₉₂, OC(=O)R₁₉₂, C(=O)OR₁₉₂, SC(=O)_iR₁₉₂, S(=O)_iNR₁₉₂R₁₉₂, NR₁₉₂R₁₉₂, NR₁₉₂SO₂R₁₉₂, NR₁₉₂SO₂R₁₉₂R₁₉₂, NR₁₉₂C(=O)R₁₉₂, C(=O)NR₁₉₂R₁₉₂, NR₁₉₂R₁₉₂, oxo or oxime;

R₁₉₂ is H, C₁₋₄ alkyl, or phenyl;

at each occurrence, phenyl in R₁₉₁ and R₁₉₂ is optionally substituted with one or more halo, CN, NO₂, phenyl, C₃₋₆ cycloalkyl, OR₁₉₂, C(=O)R₁₉₂, OC(=O)R₁₉₂, C(=O)OR₁₉₂, S(=O)_iR₁₉₆, S(=O)_iNR₁₉₂R₁₉₂, NR₁₉₂SO₂R₁₉₂, NR₁₉₂SO₂NR₁₉₂R₁₉₂, NR₁₉₂C(=O)R₁₉₂, C(=O)NR₁₉₂R₁₉₂, or NR₁₉₂R₁₉₂;

R₁₉₃ is selected from the group consisting of null, H, C₁₋₄alkyl, C₃₋₅cycloalkyl, C₁₋₄haloalkyl, and halophenyl;

R₁₉₄ is selected from the group consisting of H, alkyl, C₁₋₂alkoxy, halo, and haloalkoxy, or R₁₉₃ and R₁₉₄ can be taken together to form a 5- or 6-membered, optionally substituted, heteroalkyl or heteroaryl ring;

R₁₉₅ is H or F;

R₁₉₆ is selected from the group consisting of H, methyl, amino, and F;

R₁₉₇ is H, CH₃, or F;

B is an unsaturated 4-atom linker having one nitrogen and three carbons;

M is

- a) H,
- b) C₁₋₈ alkyl,
- c) C₃₋₈ cycloalkyl,
- d) -(CH₂)_mOR₁₃, or
- e) -(CH₂)_h-NR₂₁R₂₂;

Z is.

- a) O,
- b) S, or
- c) NM;

W is

- a) CH,
- b) N, or
- c) S or O when Z is NM;

Y is

- a) H,
- b) F,
- c) Cl,
- d) Br,
- e) C₁₋₃ alkyl, or
- f) NO₂;

X is

- a) H,
- b) -CN,
- c) OR₂₇,

- d) halo,
- e) NO_2 ,
- f) tetrazoyl,
- g) $-\text{SH}$,
- h) $-\text{S}(=\text{O})_i \text{R}_4$,
- i) $-\text{S}(=\text{O})_2 - \text{N}=\text{S}(\text{O})_j \text{R}_5 \text{R}_6$,
- j) $-\text{SC}(=\text{O}) \text{R}_7$,
- k) $-\text{C}(=\text{O}) \text{R}_{25}$,
- l) $-\text{C}(=\text{O}) \text{NR}_{27} \text{R}_{28}$,
- m) $-\text{C}(=\text{NR}_{29}) \text{R}_{25}$,
- n) $-\text{C}(\text{R}_{25})(\text{R}_{28}) - \text{OR}_{13}$,
- o) $-\text{C}(\text{R}_{25})(\text{R}_{28}) - \text{OC}(=\text{O}) \text{R}_{13}$,
- p) $-\text{C}(\text{R}_{28})(\text{OR}_{13}) - (\text{CH}_2)_h - \text{NR}_{27} \text{R}_{28}$,
- q) $-\text{NR}_{27} \text{R}_{28}$,
- r) $-\text{N}(\text{R}_{27}) \text{C}(=\text{O}) \text{R}_7$,
- s) $-\text{N}(\text{R}_{27}) - \text{S}(=\text{O})_i \text{R}_7$,
- t) $-\text{C}(\text{OR}_{14})(\text{OR}_{15}) \text{R}_{28}$,
- u) $-\text{C}(\text{R}_{25})(\text{R}_{16}) - \text{NR}_{27} \text{R}_{26}$, or
- v) C_{1-8} alkyl substituted with one or more halos, OH , $=\text{O}$ other than at alpha position, $-\text{S}(=\text{O})_i \text{R}_{17}$, $-\text{NR}_{27} \text{R}_{28}$, C_{2-5} alkenyl, C_{2-5} alkynyl, or C_{3-8} cycloalkyl;

X_1 is N or CR_{158} ;

Y_1 is

- a) $\text{S}(\text{O})_i$,
- b) $\text{S}(\text{NR}_{159})$, or
- c) $\text{S}(\text{NR}_{159})(\text{O})$;

W_1 is O or S;

X_2 is O or NR_{162} ;

X_3 is $\text{S}(\text{O})_i$ or NR_{166} ;

Y₂ is

- a) O
- b) NH,
- c) CH₂, or
- d) S(O)_i;

X₄ is

- a) O
- b) NR₁₇₂,
- c) S(O)_i, or
- d) S(O) (NR₁₇₃); and

Y₃ is CH or N;

R₄, R₅, R₆, R₇, R₁₃, R₁₄, R₁₅, R₁₆, and R₁₇ are the same as defined above;

R₂₅ is

- a) H,
- b) C₁₋₈ alkyl optionally substituted with one or more halos, C₃₋₈ cycloalkyl, C₁₋₄ alkyl substituted with one or more of -S(=O)_iR₁₇, -OR₁₃, or OC(=O)R₁₃, NR₂₇R₂₈, or
- c) C₂₋₅ alkenyl optionally substituted with CHO, or CO₂R₁₃;

R₂₆ is

- a) R₂₈, or
- b) NR₂₇NR₂₈;

R₂₇ and R₂₈ at each occurrence are the same or different and are

- a) H,
- b) C₁₋₈ alkyl,

- c) C_{3-8} cycloalkyl,
- d) $-(CH_2)_mOR_{13}$,
- e) $-(CH_2)_h-NR_{21}R_{22}$, or
- f) R_{27} and R_{28} taken together are $-(CH_2)_2O(CH_2)_2-$,
 $-(CH_2)_hCH(COR_7)-$, or $-(CH_2)_2N(CH_2)_2(R_7)$;

R_{29} is

- a) $-NR_{27}R_{28}$,
- b) $-OR_{27}$, or
- c) $-NHC(=O)R_{28}$;

wherein R_{30} is

- a) H,
- b) C_{1-8} alkyl optionally substituted with one or more halos, or
- c) C_{1-8} alkyl optionally substituted with one or more OH, or C_{1-6} alkoxy;

wherein E is

- a) NR_{39} ,
- b) $-S(=O)_i$,
- c) O, or
- d) $S(O)(NR_{190})$;

R_{38} is

- a) H,
- b) C_{1-6} alkyl,
- c) $-(CH_2)_q$ -aryl, or
- d) halo;

R_{39} is

- a) H,
- b) C_{1-6} alkyl optionally substituted with one or more OH, halo, or $-CN$,
- c) $-(CH_2)_q$ -aryl,

- d) $-\text{CO}_2\text{R}_{40}$,
- e) $-\text{COR}_{41}$,
- f) $-\text{C}(=\text{O})-(\text{CH}_2)_q-\text{C}(=\text{O})\text{R}_{40}$,
- g) $-\text{S}(=\text{O})_2-\text{C}_{1-6}\text{ alkyl}$,
- h) $-\text{S}(=\text{O})_2-(\text{CH}_2)_q\text{-aryl}$, or
- i) $-(\text{C}=\text{O})_j\text{-Het}$;

R_{40} is

- a) H,
- b) $\text{C}_{1-6}\text{ alkyl}$ optionally substituted with one or more OH, halo, or $-\text{CN}$,
- c) $-(\text{CH}_2)_q\text{-aryl}$, or
- d) $-(\text{CH}_2)_q\text{-OR}_{42}$;

R_{41} is

- a) $\text{C}_{1-6}\text{ alkyl}$ optionally substituted with one or more OH, halo, or $-\text{CN}$,
- b) $-(\text{CH}_2)_q\text{-aryl}$, or
- c) $-(\text{CH}_2)_q\text{-OR}_{42}$;

R_{42} is

- a) H,
- b) $\text{C}_{1-6}\text{ alkyl}$,
- c) $-(\text{CH}_2)_q\text{-aryl}$, or
- d) $-\text{C}(=\text{O})-\text{C}_{1-6}\text{ alkyl}$;

aryl is

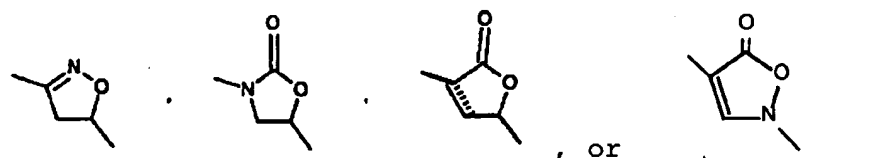
- a) phenyl,
- b) pyridyl, or
- c) naphthyl; a to c optionally substituted with one or more halo, $-\text{CN}$, OH, SH, $\text{C}_{1-6}\text{ alkyl}$, $\text{C}_{1-6}\text{ alkoxy}$, or $\text{C}_{1-6}\text{ alkylthio}$;

h is 1, 2, or 3;

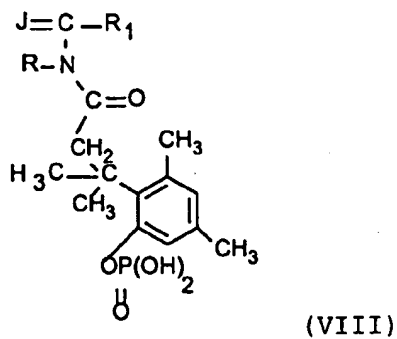
i is 0, 1, or 2;

j is 0 or 1, with the proviso that when j is 0, Y₂ is -CH₂-;
 k is 3, 4, or 5;
 l is 2 or 3;
 m is 4 or 5;
 n is 0, 1, 2, 3, 4, or 5;
 p is 0, 1, 2, 3, 4, or 5; with the proviso that n and p together are 1, 2, 3, 4, or 5;
 q is 1, 2, 3, or 4;
 u is 1 or 2;
 w is 0, 1, 2, or 3;
 x is 0, 1, 2, 3 or 4; and
 y is 0, 1, 2, 3 or 4; with the proviso that x and y taken together are 3 or 4;
 z is 1, 2, 3, 4 or 5, provided that i and z taken together are 2, 3, 4 or 5; and

G is

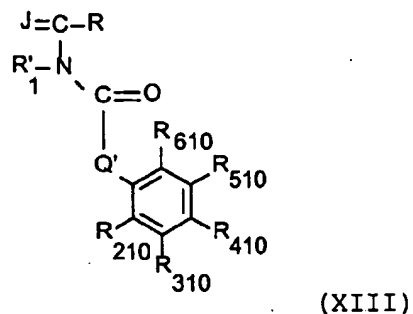


2. The oxazolidinone derivative of Claim 1, wherein said derivative is a compound of Formula (VIII)



wherein R is $-\text{CH}_2-\text{G}-\text{A}$.

3. An oxazolidinone derivative of formula (XIII)

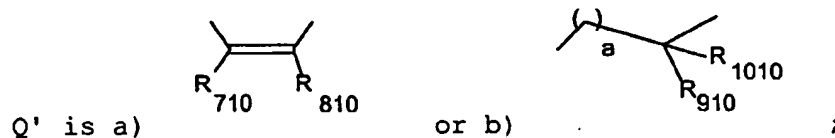


wherein R is $-\text{G}-\text{A}$;

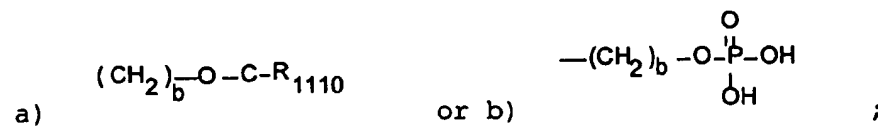
J is O or S;

R'_1 is

- a) H,
- b) OH,
- c) alkyl,
- d) alkoxy,
- e) alkenyl,
- f) amino,
- g) substituted alkyl,
- h) substituted alkoxy,
- i) substituted alkenyl, or
- j) substituted amino;



R_{210} is



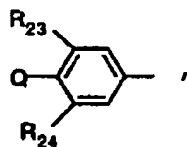
R_{310} , R_{410} and R_{510} each independently are

- a) H,
- b) C_{1-4} alkyl,
- c) halogen,
- d) C_{1-4} alkoxy,
- e) hydroxy,
- f) $(CH_2)_cOP(O)(OH)_2$,
- g) C_{1-4} acyloxy, or
- h) C_{1-4} alkyl substituted by halogen, hydroxy, acyloxy, $NR_{1210}R_{1310}$, or alkoxy; and

R_{610} is

- a) H,
- b) CH_3 , or
- c) C_2H_5 ;

A is



R_4 is

- a) C_{1-4} alkyl optionally substituted with one or more halos, OH, CN, $NR_{10}R_{11}$, or $-CO_2R_{13}$,
- b) C_{2-4} alkenyl,
- c) $-NR_{16}R_{18}$,
- d) $-N_3$,
- e) $-NHC(=O)R_7$,
- f) $-NR_{20}C(=O)R_7$,
- g) $-N(R_{19})_2$,
- h) $-NR_{16}R_{19}$, or
- i) $-NR_{19}R_{20}$,

R₅ and R₆ at each occurrence are the same or different and are

- a) C₁₋₂ alkyl, or
- b) R₅ and R₆ taken together are -(CH₂)_k-;

R₇ is C₁₋₄ alkyl optionally substituted with one or more halos;

R₁₀ and R₁₁ at each occurrence are the same or different and are

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₃ is

- a) H, or
- b) C₁₋₄ alkyl;

R₁₄ and R₁₅ at each occurrence are the same or different and are

- a) C₁₋₄ alkyl, or
- b) R₁₄ and R₁₅ taken together are -(CH)₁-;

R₁₆ is

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₇ is

- a) C₁₋₄ alkyl, or
- b) C₃₋₈ cycloalkyl;

R₁₈ is

- a) H,
- b) C₁₋₄ alkyl,

- c) C₂₋₄ alkenyl,
- d) C₃₋₄ cycloalkyl,
- e) -OR₁₃ or
- f) -NR₂₁R₂₂;

R₁₉ is

- a) Cl,
- b) Br, or
- c) I;

R₂₀ is a physiologically acceptable cation;

R₂₁ and R₂₂ at each occurrence are the same or different and are

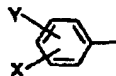
- a) H,
- b) C₁₋₄ alkyl, or
- c) -NR₂₁R₂₂ taken together are -(CH₂)_m-;

wherein R₂₃ and R₂₄ at each occurrence are the same or different and are

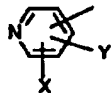
- a) H,
- b) F,
- c) Cl,
- d) C₁₋₂ alkyl,
- e) CN
- f) OH,
- g) C₁₋₂ alkoxy,
- h) nitro, or
- i) amino;

Q is

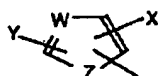
a)



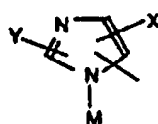
b)



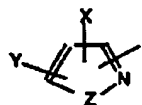
c)



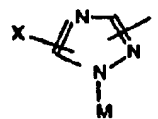
d)



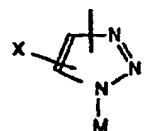
e)



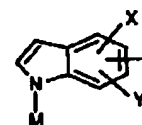
f)

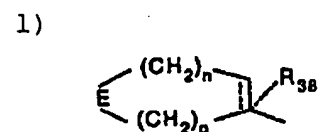
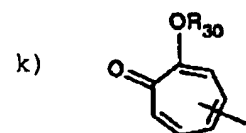
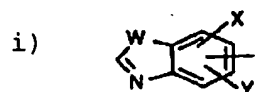


g)

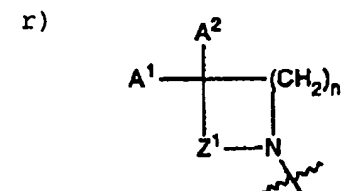


h)

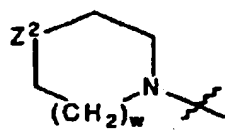




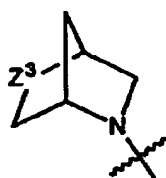
- m) a diazinyl group optionally substituted with X and Y,
- n) a triazinyl group optionally substituted with X and Y,
- o) a quinolinyl group optionally substituted with X and Y,
- p) a quinoxaliny group optionally substituted with X and Y,
- q) a naphthyridinyl group optionally substituted with X and Y,



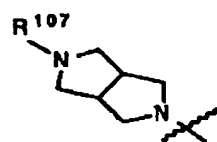
s)



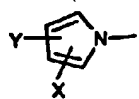
t)



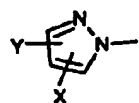
u)



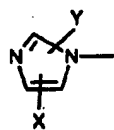
v)

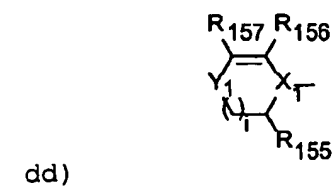
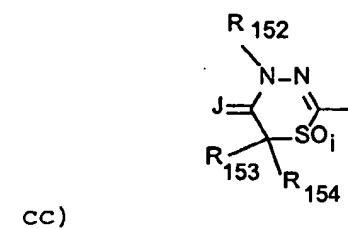
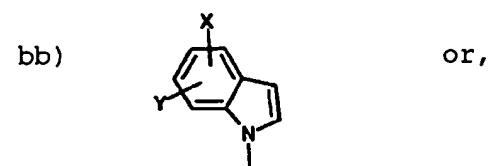
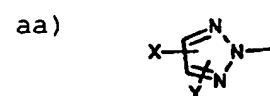
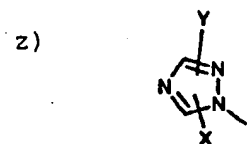
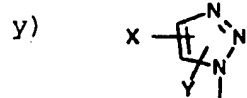


w)

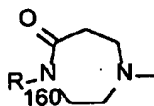


x)

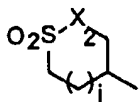




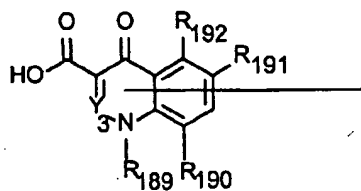
ee)



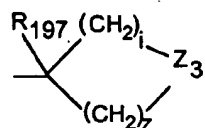
ff)



gg)

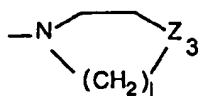


hh)

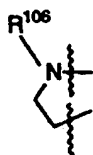


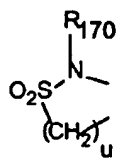
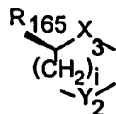
, or

ii)

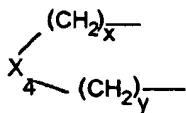


;

Q and R₂₄ taken together are



, or

wherein Z^1 is

- a) $-CH_2-$,
- b) $-CH(R^{104})-CH_2-$,
- c) $-C(O)-$, or
- d) $-CH_2CH_2CH_2-$;

wherein Z^2 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-N(R^{107})-$,
- d) $-OS-$,
- e) $-S-$, or
- f) $S(O)(NR_{190})$;

wherein Z^3 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-OS-$,
- d) $-S-$, or
- e) $S(O)(NR_{190})$

wherein A¹ is

- a) H-, or
- b) CH₃;

wherein A² is

- a) H-,
- b) HO-,
- c) CH₃-,
- d) CH₃O-,
- e) R¹⁰²O-CH₂-C(O)-NH-
- f) R¹⁰³O-C(O)-NH-,
- g) (C₁-C₂) alkyl-O-C(O)-,
- h) HO-CH₂-,
- i) CH₃O-NH-,
- j) (C₁-C₃) alkyl-O₂C-
- k) CH₃-C(O)-,
- l) CH₃-C(O)-CH₂-,
- m) , or

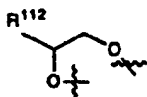


n)



A¹ and A² taken together are:

a)



b)



c)



wherein R^{102} is

- a) H-,
- b) CH_3 -,
- c) phenyl- CH_2 -, or
- d) $\text{CH}_3\text{C}(\text{O})$ -;

wherein R^{103} is

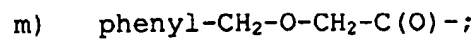
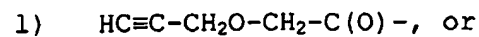
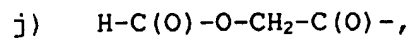
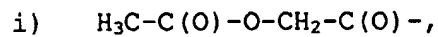
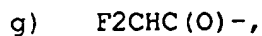
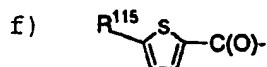
- a) $(\text{C}_1\text{-C}_3)\text{alkyl}$ -, or
- b) phenyl-;

wherein R^{104} is

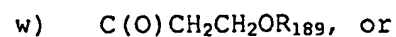
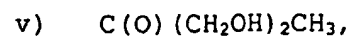
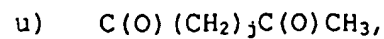
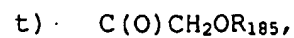
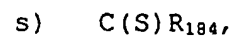
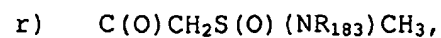
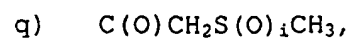
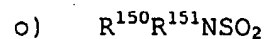
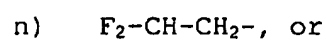
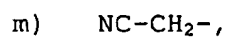
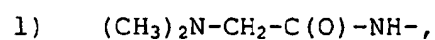
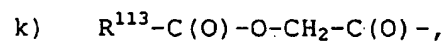
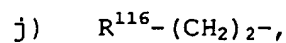
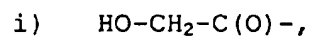
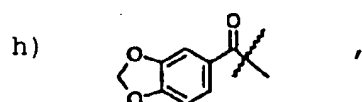
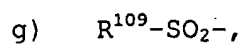
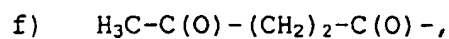
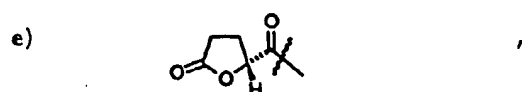
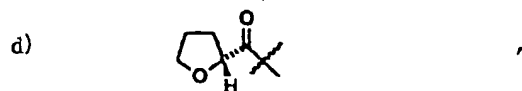
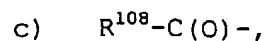
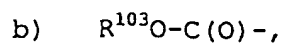
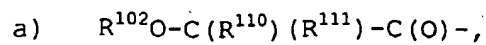
- a) H-, or
- b) HO-;

wherein R^{106} is

- a) $\text{CH}_3\text{-C}(\text{O})$ -,
- b) $\text{H-C}(\text{O})$ -,
- c) $\text{Cl}_2\text{CH-C}(\text{O})$ -,
- d) $\text{HOCH}_2\text{-C}(\text{O})$ -,
- e) CH_3SO_2 -,



wherein R^{107} is



wherein R^{108} is

- a) H-,
- b) (C_1-C_4) alkyl,
- c) aryl $-(CH_2)_p$,
- d) ClH_2C- ,
- e) Cl_2HC- ,
- f) FH_2C- ,
- g) F_2HC- ,
- h) (C_3-C_6) cycloalkyl, or
- i) $CNCH_2-$.

wherein R^{109} is

- a) alkyl C_1-C_4 ,
- b) $-CH_2Cl$
- c) $-CH_2CH=CH_2$,
- d) aryl, or
- e) $-CH_2CN$;

wherein R^{110} and R^{111} are independently

- a) H-,
- b) CH_3- ; or

wherein R^{112} is

- a) H-,
- b) $CH_3O-CH_2O-CH_2-$, or
- c) $HOCH_2-$;

wherein R^{113} is

- a) CH_3- ,
- b) $HOCH_2-$,
- c) $(CH_3)_2N$ -phenyl, or
- d) $(CH_3)_2N-CH_2-$;

wherein R^{114} is

- a) HO-,
- b) CH₃O-,
- c) H₂N-,
- d) CH₃O-C(O)-O-,
- e) CH₃-C(O)-O-CH₂-C(O)-O-,
- f) phenyl-CH₂-O-CH₂-C(O)-O-,
- g) HO-(CH₂)₂-O-,
- h) CH₃O-CH₂-O-(CH₂)₂-O-, or
- i) CH₃O-CH₂-O-;

wherein R^{115} is

- a) H-, or
- b) Cl-;

wherein R^{116} is

- a) HO-
- b) CH₃O-, or
- c) F;

wherein R^{150} and R^{151} are each H or alkyl C₁-C₄ or R^{150} and R^{151} taken together with the nitrogen atom to which each is attached form a monocyclic heterocyclic ring having from 3 to 6 carbon atoms;

R_{152} is

- a) H,
- b) C₁₋₄alkyl,
- c) C₁₋₄heteroalkyl,
- d) (CH₂)₁C(=O)OC₁₋₄alkyl,
- e) (CH₂)₁C(=O)C₁₋₄alkyl,
- f) aryl, or
- g) het¹;

R₁₅₃ and R₁₅₄ are independently

- a) H,
- b) F,
- c) C₁₋₄alkyl,
- d) C₃₋₆cycloalkyl,
- e) C₁₋₄heteroalkyl,
- f) aryl,
- g) het¹,
- h) OC₁₋₄alkyl,
- i) O(C=O)C₁₋₄alkyl,
- j) (C=O)OC₁₋₄alkyl; or
- k) R₁₅₃ and R₁₅₄ taken together are C₃₋₆cycloalkyl;

R₁₅₅ is

- a) H,
- b) F,
- c) C₁₋₄alkyl,
- d) OC₁₋₄alkyl,
- e) SC₁₋₄alkyl, or
- f) NHC₁₋₄alkyl;

R₁₅₆ is

- a) H,
- b) C₁₋₄alkyl,
- c) OC₁₋₄alkyl,
- d) SC₁₋₄alkyl, or
- e) NHC₁₋₄alkyl;

R₁₅₇ is

- a) -H,
- b) -F,
- c) -Cl,
- d) -NH₂,
- e) -OH,
- f) -CN,

- g) $-C_{1-4}alkyl$,
- h) $-OC_{1-4}alkyl$,
- i) $-C_{1-4}alkyl-W-C_{1-4}alkyl$,
- j) $-NHC_{1-4}alkyl$,
- k) $-(CH_2)_iC_{3-6}cycloalkyl$,
- l) $-C(=O)C_{1-4}alkyl$,
- m) $-OC(=O)C_{1-4}alkyl$,
- n) $-C(=O)OC_{1-4}alkyl$,
- o) $-S(O)_iC_{1-4}alkyl$, or
- p) $-C(=O)NHC_{1-4}alkyl$;

R₁₅₈ is

- a) $-H$,
- b) $-CH_3$,
- c) $-F$, or
- d) $-OH$;

R₁₅₉ is

- a) $-H$,
- b) $-C_{1-4}alkyl$,
- c) $-C(=O)C_{1-4}alkyl$,
- d) $-C(=O)NHC_{1-4}alkyl$,
- e) $-OC(=O)C_{1-4}alkyl$,
- f) $-C(=O)OC_{1-4}alkyl$, or
- g) $-S(O)_iC_{1-4}alkyl$, or
- h) $-C_{1-4}alkyl-W_1-C_{1-4}alkyl$;

R₁₆₀ is H, C₂₋₆ alkenyl, C₂₋₇ alkynyl, C₁₋₆ alkyl substituted with one or two of the following:

- a) F ,
- b) Cl ,
- c) CF_3 ,
- d) $-OH$,
- e) $C_{1-4}alkoxy$,
- f) $-CH_2C(=O)C_{1-4}alkyl$,

- g) $-\text{OC}(=\text{O})\text{N}(\text{R}_{161})_2$,
- h) $\text{C}_{1-4}\text{alkyl S}(\text{O})_n$, (wherein n is 0, 1 or 2),
- i) $-\text{CN}$,
- j) carboxy,
- k) $-\text{C}_{1-4}\text{alkoxycarbonyl}$,
- l) $-\text{C}(=\text{O})\text{N}(\text{R}_{161})_2$,
- m) $-\text{N}(\text{R}_{161})\text{SO}_2\text{C}_{1-4}\text{ alkyl}$,
- n) $-\text{N}(\text{R}_{161})\text{C}(=\text{O})\text{C}_{1-4}\text{ alkyl}$,
- o) $-\text{N}(\text{R}_{161})\text{C}(=\text{O})\text{N}(\text{R}_4)_2$,
- p) $-\text{N}(\text{R}_{161})\text{C}(=\text{O})\text{C}_{1-4}\text{ alkoxy}$,
- q) aryl, or
- r) Het_1 ;

R_{161} is

- a) H, or
- b) $\text{C}_{1-3}\text{ alkyl}$;

R_{162} is

- a) H,
- b) $\text{C}_{1-8}\text{ alkyl}$, optionally substituted with one to three F, Cl, OH, CN, NH_2 , $\text{OC}(=\text{O})\text{C}_{1-4}\text{alkyl}$, or $\text{OC}_{1-4}\text{ alkyl}$,
- c) $\text{C}_{3-8}\text{ alkene}$, or
- d) $\text{C}(=\text{O})\text{NR}_{163}\text{R}_{164}$;

R_{163} and R_{164} are independently

- a) H, or
- b) $\text{C}_{1-8}\text{ alkyl}$, optionally substituted with one to three F, Cl, OH, CN, or NH_2 ;

R_{165} is $\text{C}_{1-4}\text{ alkyl}$, optionally substituted with 1-3 R_{168} ;

R₁₆₆ is

- a) C₁₋₈ alkyl, optionally substituted with 1-3 halo, CN, NO₂, OH, SH or NH₂,
- b) -C(=O)R₁₆₇ or
- c) -C(=S)NHC₁₋₄ alkyl;

R₁₆₇ is

- a) H,
- b) C₁₋₆ alkyl, optionally substituted with OH, C₁₋₄ alkoxy, NH₂, SH or halo, or
- c) -CH₂OC(=O)C₁₋₄ alkyl;

R₁₆₈ is

- j) halo,
- k) -CN,
- l) -OH,
- m) -SH,
- n) -NH₂,
- o) -OR₁₆₉,
- p) -NHR₁₆₉,
- q) -N(R₁₆₉)₂, or
- r) -S(=O)_jR₁₆₉;

R₁₆₉ is

- g) C₁₋₆ alkyl,
- h) -C(=O)C₁₋₄ alkyl,
- i) -C(=O)O C₁₋₄ alkyl,
- j) -C(=O)NH₂,
- k) -C(=O)NH C₁₋₄ alkyl, or
- l) -SO₂ C₁₋₄ alkyl;

with the proviso that where j is 0, Y₂ is -CH₂-.

R₁₇₀ is

- a) H,
- b) C₁₋₁₂ alkyl, optionally substituted with phenyl or CN, or
- c) C₂₋₁₂ alkyl substituted with OH, SH, NH₂, -OC₁₋₆ alkyl, -NHC₁₋₆ alkyl, -NHCOC₁₋₆ alkyl, -NHSO₂C₁₋₆ alkyl, -S(O)_iC₁₋₆ alkyl, or one to three halo;

R₁₇₂ is

- a) H,
- b) C₁₋₈ alkyl,
- c) aryl,
- d) het₁,
- e) C(=W)R₁₇₄,
- f) C(=O)OR₁₇₅, or
- g) S(=O)_iR₁₇₆;

R₁₇₃ is

- a) H, or
- b) C₁₋₈ alkyl;

R₁₇₄ is

- a) H,
- b) aryl,
- c) het₁,
- d) NR₁₇₇R₁₇₈, or
- e) C₁₋₈ alkyl;

R₁₇₅ is

- a) C₁₋₈ alkyl,
- b) aryl, or
- c) het₁;

R₁₇₆ is

- a) aryl,
- b) het₁,
- c) NR₁₇₇R₁₇₈, or
- d) C₁₋₈ alkyl;

R₁₇₇ and R₁₇₈ are independently

- a) H,
- b) C₁₋₈ alkyl, or
- c) aryl;

R₁₈₀ and R₁₈₁ taken together form C₃₋₅ cycloalkyl;

R₁₈₂ is H, CH₃ or C₁₋₄ alkanoyl;

R₁₈₃ is H, C₁₋₄ alkyl, C₁₋₄ alkanoyl, -C(=O)NH-C₁₋₄ alkyl or -CO₂C₁₋₄ alkyl;

R₁₈₄ is C₁₋₄ alkyl, CH₂OR₁₈₆, S-C₁₋₄ alkyl, OC₁₋₄ alkyl, or NR₁₈₇R₁₈₈;

R₁₈₅ is phenyl, -CO₂-(CH₂)₂-OCH₃, -P(=O)(OH)₂, -C(=O)-NR₁₈₇R₁₈₆, or -C(=O)-(CH₂)₂-CO₂H;

R₁₈₆ is H, phenyl, benzyl, CH₃ or C(=O)CH₃;

R₁₈₇ and R₁₈₈ are independently H or C₁₋₃ alkyl; or R₁₈₇ and R₁₈₈ taken together form a 5- or 6-membered saturated heterocycle, wherein said saturated heterocycle may further contain one or two additional hetero-atoms selected from a group consisting of O, S(O)_n or NR₁₈₂;

R₁₈₉ is H, CH₃ or benzyl;

R₁₉₀ is

- a) H,
- b) C₁₋₄ alkyl,
- c) C(=O)C₁₋₄ alkyl,
- d) C(=O)OC₁₋₄ alkyl,
- e) C(=O)NHR₁₉₁, or
- f) C(=S)NHR₁₉₁;

R₁₉₁ is H, C₁₋₄ alkyl, or phenyl;

at each occurrence, alkyl in R₁₉₀ and R₁₉₁ is optionally substituted with one or more halo, CN, NO₂, phenyl, C₃₋₆ cycloalkyl, OR₁₉₂, C(=O)R₁₉₂, OC(=O)R₁₉₂, C(=O)OR₁₉₂, SC(=O)_iR₁₉₂, S(=O)_iNR₁₉₂R₁₉₂, NR₁₉₂R₁₉₂, NR₁₉₂SO₂R₁₉₂, NR₁₉₂SO₂R₁₉₂R₁₉₂, NR₁₉₂C(=O)R₁₉₂, C(=O)NR₁₉₂R₁₉₂, NR₁₉₂R₁₉₂, oxo or oxime;

R₁₉₂ is H, C₁₋₄ alkyl, or phenyl;

at each occurrence, phenyl in R₁₉₁ and R₁₉₂ is optionally substituted with one or more halo, CN, NO₂, phenyl, C₃₋₆ cycloalkyl, OR₁₉₂, C(=O)R₁₉₂, OC(=O)R₁₉₂, C(=O)OR₁₉₂, S(=O)_iR₁₉₆, S(=O)_iNR₁₉₂R₁₉₂, NR₁₉₂SO₂R₁₉₂, NR₁₉₂SO₂NR₁₉₂R₁₉₂, NR₁₉₂C(=O)R₁₉₂, C(=O)NR₁₉₂R₁₉₂, or NR₁₉₂R₁₉₂;

R₁₉₃ is selected from the group consisting of null, H, C₁₋₄alkyl, C₃₋₅cycloalkyl, C₁₋₄haloalkyl, and halophenyl;

R₁₉₄ is selected from the group consisting of H, alkyl, C₁₋₂alkoxy, halo, and haloalkoxy, or R₁₉₃ and R₁₉₄ can be taken together to form a 5- or 6-membered, optionally substituted, heteroalkyl or heteroaryl ring;

R₁₉₅ is H or F;

R₁₉₆ is selected from the group consisting of H, methyl, amino, and F;

R₁₉₇ is H, CH₃, or F;

B is an unsaturated 4-atom linker having one nitrogen and three carbons;

M is

- a) H,
- b) C₁₋₈ alkyl,
- c) C₃₋₈ cycloalkyl,
- d) -(CH₂)_mOR₁₃, or
- e) -(CH₂)_n-NR₂₁R₂₂;

Z is

- a) O,
- b) S, or
- c) NM;

W is

- a) CH,
- b) N, or
- c) S or O when Z is NM;

Y is

- a) H,
- b) F,
- c) Cl,
- d) Br,
- e) C₁₋₃ alkyl, or
- f) NO₂;

X is

- a) H,
- b) -CN,
- c) OR₂₇,

- d) halo,
- e) NO_2 ,
- f) tetrazoyl,
- g) $-\text{SH}$,
- h) $-\text{S}(=\text{O})_i \text{R}_4$,
- i) $-\text{S}(=\text{O})_2 - \text{N}=\text{S}(\text{O})_j \text{R}_5 \text{R}_6$,
- j) $-\text{SC}(=\text{O}) \text{R}_7$,
- k) $-\text{C}(=\text{O}) \text{R}_{25}$,
- l) $-\text{C}(=\text{O}) \text{NR}_{27} \text{R}_{28}$,
- m) $-\text{C}(=\text{NR}_{29}) \text{R}_{25}$,
- n) $-\text{C}(\text{R}_{25})(\text{R}_{28}) - \text{OR}_{13}$,
- o) $-\text{C}(\text{R}_{25})(\text{R}_{28}) - \text{OC}(=\text{O}) \text{R}_{13}$,
- p) $-\text{C}(\text{R}_{28})(\text{OR}_{13}) - (\text{CH}_2)_h - \text{NR}_{27} \text{R}_{28}$,
- q) $-\text{NR}_{27} \text{R}_{28}$,
- r) $-\text{N}(\text{R}_{27}) \text{C}(=\text{O}) \text{R}_7$,
- s) $-\text{N}(\text{R}_{27}) - \text{S}(=\text{O})_i \text{R}_7$,
- t) $-\text{C}(\text{OR}_{14})(\text{OR}_{15}) \text{R}_{28}$,
- u) $-\text{C}(\text{R}_{25})(\text{R}_{16}) - \text{NR}_{27} \text{R}_{26}$, or
- v) C_{1-8} alkyl substituted with one or more halos,
 OH , $=\text{O}$ other than at alpha position, $-\text{S}(=\text{O})_i \text{R}_{17}$,
 $-\text{NR}_{27} \text{R}_{28}$, C_{2-5} alkenyl, C_{2-5} alkynyl, or C_{3-8}
cycloalkyl;

X_1 is N or CR_{158} ;

Y_1 is

- a) $\text{S}(\text{O})_i$,
- b) $\text{S}(\text{NR}_{159})$, or
- c) $\text{S}(\text{NR}_{159})(\text{O})$;

W_1 is O or S;

X_2 is O or NR_{162} ;

X_3 is $\text{S}(\text{O})_i$ or NR_{166} ;

Y₂ is

- a) O
- b) NH,
- c) CH₂, or
- d) S(O)_i;

X₄ is

- a) O
- b) NR₁₇₂,
- c) S(O)_i, or
- d) S(O) (NR₁₇₃); and

Y₃ is CH or N;

R₄, R₅, R₆, R₇, R₁₃, R₁₄, R₁₅, R₁₆, and R₁₇ are the same as defined above;

R₂₅ is

- a) H,
- b) C₁₋₈ alkyl optionally substituted with one or more halos, C₃₋₈ cycloalkyl, C₁₋₄ alkyl substituted with one or more of -S(=O)_iR₁₇, -OR₁₃, or OC(=O)R₁₃, NR₂₇R₂₈, or
- c) C₂₋₅ alkenyl optionally substituted with CHO, or CO₂R₁₃;

R₂₆ is

- a) R₂₈, or
- b) NR₂₇NR₂₈;

R₂₇ and R₂₈ at each occurrence are the same or different and are

- a) H,
- b) C₁₋₈ alkyl,

- c) C₃₋₈ cycloalkyl,
- d) -(CH₂)_mOR₁₃,
- e) -(CH₂)_n-NR₂₁R₂₂, or
- f) R₂₇ and R₂₈ taken together are -(CH₂)₂O(CH₂)₂-,
-(CH₂)_hCH(COR₇)-, or -(CH₂)₂N(CH₂)₂(R₇);

R₂₉ is

- a) -NR₂₇R₂₈,
- b) -OR₂₇, or
- c) -NHC(=O)R₂₈;

wherein R₃₀ is

- a) H,
- b) C₁₋₈ alkyl optionally substituted with one or more halos, or
- c) C₁₋₈ alkyl optionally substituted with one or more OH, or C₁₋₆ alkoxy;

wherein E is

- a) NR₃₉,
- b) -S(=O)₁,
- c) O, or
- d) S(O)(NR₁₉₀);

R₃₈ is

- a) H,
- b) C₁₋₆ alkyl,
- c) -(CH₂)_q-aryl, or
- d) halo;

R₃₉ is

- a) H,
- b) C₁₋₆ alkyl optionally substituted with one or more OH, halo, or -CN,
- c) -(CH₂)_q-aryl,

- d) $-\text{CO}_2\text{R}_{40}$,
- e) $-\text{COR}_{41}$,
- f) $-\text{C}(=\text{O})-(\text{CH}_2)_q-\text{C}(=\text{O})\text{R}_{40}$,
- g) $-\text{S}(=\text{O})_2-\text{C}_{1-6}\text{ alkyl}$,
- h) $-\text{S}(=\text{O})_2-(\text{CH}_2)_q\text{-aryl}$, or
- i) $-(\text{C}=\text{O})_j\text{-Het}$;

R_{40} is

- a) H,
- b) $\text{C}_{1-6}\text{ alkyl}$ optionally substituted with one or more OH, halo, or $-\text{CN}$,
- c) $-(\text{CH}_2)_q\text{-aryl}$, or
- d) $-(\text{CH}_2)_q\text{-OR}_{42}$;

R_{41} is

- a) $\text{C}_{1-6}\text{ alkyl}$ optionally substituted with one or more OH, halo, or $-\text{CN}$,
- b) $-(\text{CH}_2)_q\text{-aryl}$, or
- c) $-(\text{CH}_2)_q\text{-OR}_{42}$;

R_{42} is

- a) H,
- b) $\text{C}_{1-6}\text{ alkyl}$,
- c) $-(\text{CH}_2)_q\text{-aryl}$, or
- d) $-\text{C}(=\text{O})-\text{C}_{1-6}\text{ alkyl}$;

aryl is

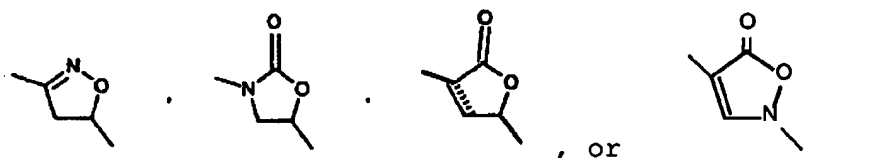
- a) phenyl,
- b) pyridyl, or
- c) naphthyl; a to c optionally substituted with one or more halo, $-\text{CN}$, OH, SH, $\text{C}_{1-6}\text{ alkyl}$, $\text{C}_{1-6}\text{ alkoxy}$, or $\text{C}_{1-6}\text{ alkylthio}$;

h is 1, 2, or 3;

i is 0, 1, or 2;

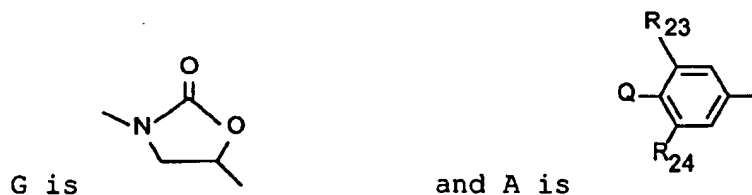
j is 0 or 1, with the proviso that when j is 0, Y₂ is -CH₂-;
 k is 3, 4, or 5;
 l is 2 or 3;
 m is 4 or 5;
 n is 0, 1, 2, 3, 4, or 5;
 p is 0, 1, 2, 3, 4, or 5; with the proviso that n and p together are 1, 2, 3, 4, or 5;
 q is 1, 2, 3, or 4;
 u is 1 or 2;
 w is 0, 1, 2, or 3;
 x is 0, 1, 2, 3 or 4; and
 y is 0, 1, 2, 3 or 4; with the proviso that x and y taken together are 3 or 4;
 z is 1, 2, 3, 4 or 5, provided that i and z taken together are 2, 3, 4 or 5; and

G is

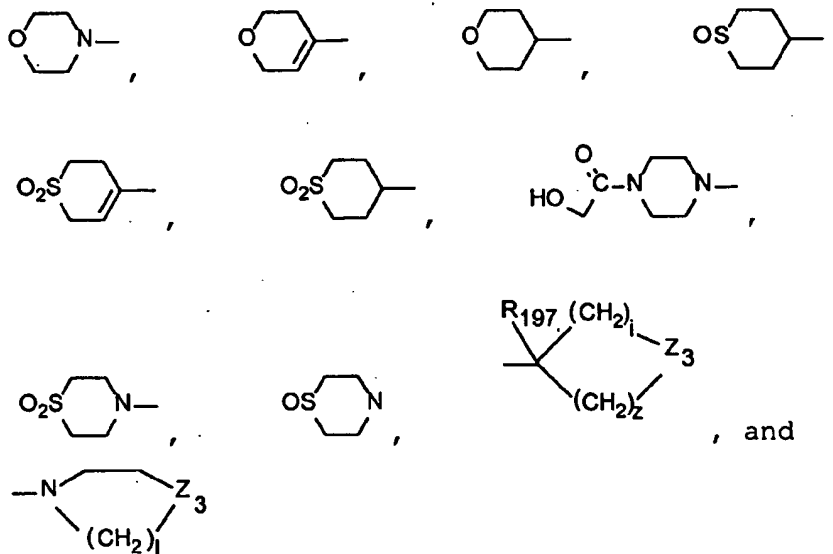


4. The oxazolidinone derivative of Claim 3, wherein J is O, Q' is b), R₂₁₀ is b), R₃₁₀ is H, R₄₁₀ is CH₃, R₅₁₀ is H and R₆₁₀ is CH₃.

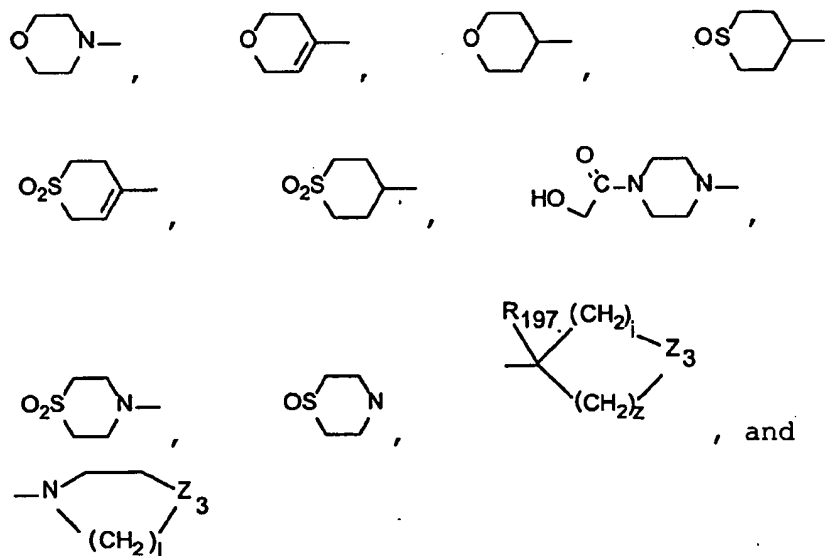
5. The oxazolidinone derivative of Claim 1, wherein J is O,



9. The oxazolidinone derivative of Claim 2, wherein R₂₃ and R₂₄ are each independently H or F and Q is selected from the group consisting of



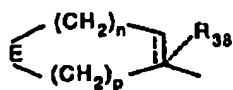
10. The oxazolidinone derivative of Claim 3, wherein R₂₃ and R₂₄ are each independently H or F and Q is selected from the group consisting of



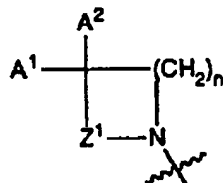
11. The oxazolidinone derivative of Claim 1, wherein said derivative is 2-{3-[Acetyl((5S)-3-[4-(1,1-dioxidotetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)amino]-1,1-dimethyl-3-oxopropyl}-3,5-dimethylphenyldihydrogen phosphate.

12. The oxazolidinone derivative of Claim 1, wherein Q is

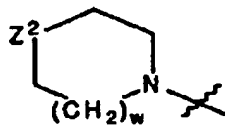
1)



r)



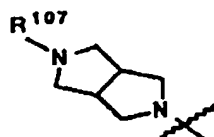
s)



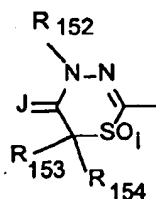
t)



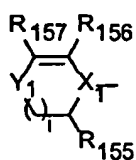
u)



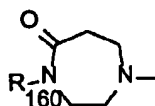
cc)



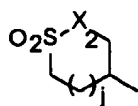
dd)



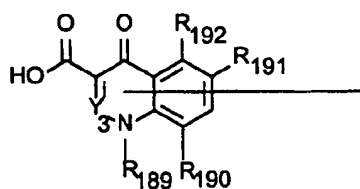
ee)



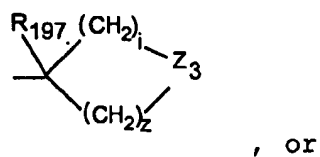
ff)



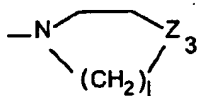
gg)



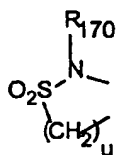
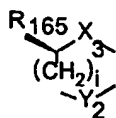
hh)



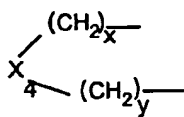
ii)



;

Q and R₂₄ taken together are

, or



wherein A^2 is

- a) H-,
- b) HO-,
- c) CH₃-,
- d) CH₃O-,
- e) R¹⁰²O-CH₂-C(O)-NH-
- f) R¹⁰³O-C(O)-NH-,
- g) (C₁-C₂) alkyl-O-C(O)-,
- h) HO-CH₂-,
- i) CH₃O-NH-,
- j) (C₁-C₃) alkyl-O₂C-
- k) CH₃-C(O)-, or
- l) CH₃-C(O)-CH₂-;

wherein R¹⁰⁶ is

- a) CH₃-C(O)-,
- b) H-C(O)-,
- c) Cl₂CH-C(O)-,
- d) HOCH₂-C(O)-,
- e) CH₃SO₂-,
- g) F₂CHC(O)-,
- i) H₃C-C(O)-O-CH₂-C(O)-,
- j) H-C(O)-O-CH₂-C(O)-,
- l) HC≡C-CH₂O-CH₂-C(O)-, or
- m) phenyl-CH₂-O-CH₂-C(O)-;

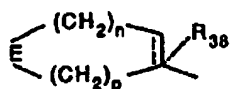
wherein R¹⁰⁷ is

- a) R¹⁰²O-C(R¹¹⁰)(R¹¹¹)-C(O)-,
- b) R¹⁰³O-C(O)-,
- c) R¹⁰⁸-C(O)-,
- f) H₃C-C(O)-(CH₂)₂-C(O)-,
- g) R¹⁰⁹-SO₂-,
- i) HO-CH₂-C(O)-,
- j) R¹¹⁶-(CH₂)₂-,
- k) R¹¹³-C(O)-O-CH₂-C(O)-,

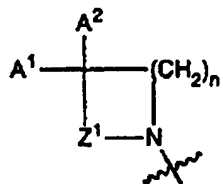
- l) $(\text{CH}_3)_2\text{N}-\text{CH}_2-\text{C}(\text{O})-\text{NH}-$,
- m) $\text{NC}-\text{CH}_2-$,
- n) $\text{F}_2-\text{CH}-\text{CH}_2-$, or
- o) $\text{R}^{150}\text{R}^{151}\text{NSO}_2$
- p) $\text{C}(\text{O})\text{CR}_{180}\text{R}_{180}\text{R}_{181}\text{OR}_{182}$,
- q) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})_i\text{CH}_3$,
- r) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})(\text{NR}_{183})\text{CH}_3$,
- s) $\text{C}(\text{S})\text{R}_{184}$,
- t) $\text{C}(\text{O})\text{CH}_2\text{OR}_{185}$,
- u) $\text{C}(\text{O})(\text{CH}_2)_j\text{C}(\text{O})\text{CH}_3$,
- v) $\text{C}(\text{O})(\text{CH}_2\text{OH})_2\text{CH}_3$,
- w) $\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{OR}_{189}$, or
- x) $-\text{CN}$.

13. The oxazolidinone derivative of Claim 2, wherein Q is

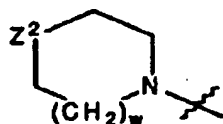
l)



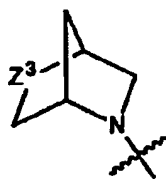
r)



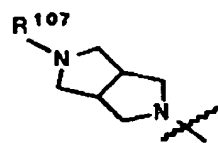
s)



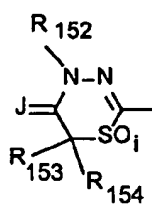
t)



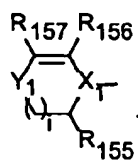
u)



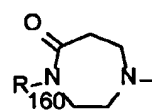
cc)



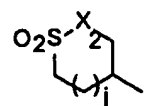
dd)

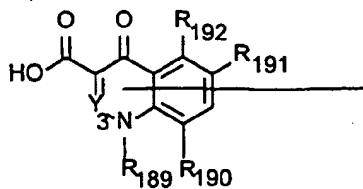


ee)

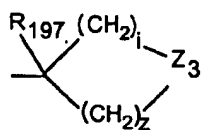


ff)



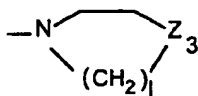


gg)



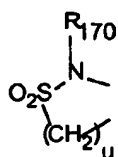
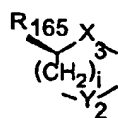
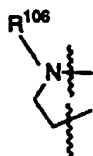
hh)

, or

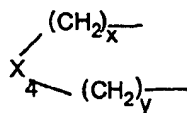


ii)

;

Q and R₂₄ taken together are

, or



wherein A^2 is

- a) H-,
- b) HO-,
- c) CH₃-,
- d) CH₃O-,
- e) R¹⁰²O-CH₂-C(O)-NH-
- f) R¹⁰³O-C(O)-NH-,
- g) (C₁-C₂) alkyl-O-C(O)-,
- h) HO-CH₂-,
- i) CH₃O-NH-,
- j) (C₁-C₃) alkyl-O₂C-
- k) CH₃-C(O)-, or
- l) CH₃-C(O)-CH₂-;

wherein R¹⁰⁶ is

- a) CH₃-C(O)-,
- b) H-C(O)-,
- c) Cl₂CH-C(O)-,
- d) HOCH₂-C(O)-,
- e) CH₃SO₂-,
- g) F₂CHC(O)-,
- i) H₃C-C(O)-O-CH₂-C(O)-,
- j) H-C(O)-O-CH₂-C(O)-,
- l) HC≡C-CH₂O-CH₂-C(O)-, or
- m) phenyl-CH₂-O-CH₂-C(O)-;

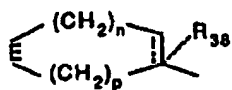
wherein R¹⁰⁷ is

- a) R¹⁰²O-C(R¹¹⁰)(R¹¹¹)-C(O)-,
- b) R¹⁰³O-C(O)-,
- c) R¹⁰⁸-C(O)-,

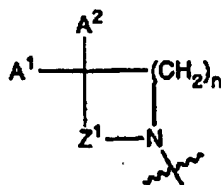
- f) $\text{H}_3\text{C}-\text{C}(\text{O})-(\text{CH}_2)_2-\text{C}(\text{O})-$,
- g) $\text{R}^{109}-\text{SO}_2-$,
- i) $\text{HO}-\text{CH}_2-\text{C}(\text{O})-$,
- j) $\text{R}^{116}-(\text{CH}_2)_2-$,
- k) $\text{R}^{113}-\text{C}(\text{O})-\text{O}-\text{CH}_2-\text{C}(\text{O})-$,
- l) $(\text{CH}_3)_2\text{N}-\text{CH}_2-\text{C}(\text{O})-\text{NH}-$,
- m) $\text{NC}-\text{CH}_2-$,
- n) $\text{F}_2-\text{CH}-\text{CH}_2-$, or
- o) $\text{R}^{150}\text{R}^{151}\text{NSO}_2$
- p) $\text{C}(\text{O})\text{CR}_{180}\text{R}_{180}\text{R}_{181}\text{OR}_{182}$,
- q) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})_1\text{CH}_3$,
- r) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})(\text{NR}_{183})\text{CH}_3$,
- s) $\text{C}(\text{S})\text{R}_{184}$,
- t) $\text{C}(\text{O})\text{CH}_2\text{OR}_{185}$,
- u) $\text{C}(\text{O})(\text{CH}_2)_j\text{C}(\text{O})\text{CH}_3$,
- v) $\text{C}(\text{O})(\text{CH}_2\text{OH})_2\text{CH}_3$,
- w) $\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{OR}_{189}$, or
- x) $-\text{CN}$.

14. The oxazolidinone derivative of Claim 3,
wherein Q is

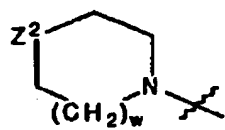
1)



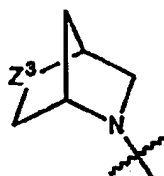
r)



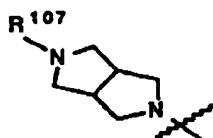
s)



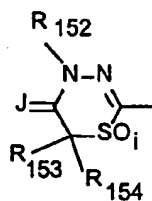
t)



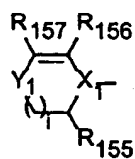
u)



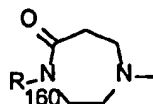
cc)

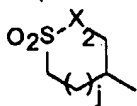


dd)

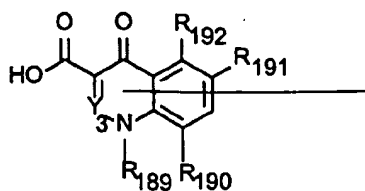


ee)

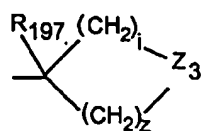




ff)

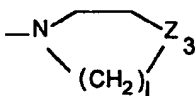


gg)



hh)

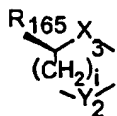
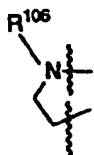
, or

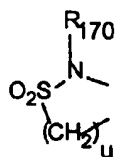


ii)

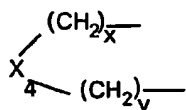
;

Q and R_{24} taken together are





, or

wherein A² is

- a) H-,
- b) HO-,
- c) CH₃-,
- d) CH₃O-,
- e) R¹⁰²O-CH₂-C(O)-NH-
- f) R¹⁰³O-C(O)-NH-,
- g) (C₁-C₂) alkyl-O-C(O)-,
- h) HO-CH₂-,
- i) CH₃O-NH-,
- j) (C₁-C₃) alkyl-O₂C-
- k) CH₃-C(O)-, or
- l) CH₃-C(O)-CH₂-;

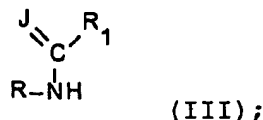
wherein R¹⁰⁶ is

- a) CH₃-C(O)-,
- b) H-C(O)-,
- c) Cl₂CH-C(O)-,
- d) HOCH₂-C(O)-,
- e) CH₃SO₂-,
- g) F₂CHC(O)-,
- i) H₃C-C(O)-O-CH₂-C(O)-,
- j) H-C(O)-O-CH₂-C(O)-,
- l) HC≡C-CH₂O-CH₂-C(O)-, or
- m) phenyl-CH₂-O-CH₂-C(O)-;

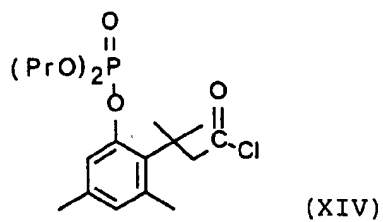
wherein R^{107} is

- a) $R^{102}O-C(R^{110})(R^{111})-C(O)-$,
- b) $R^{103}O-C(O)-$,
- c) $R^{108}-C(O)-$,
- f) $H_3C-C(O)-(CH_2)_2-C(O)-$,
- g) $R^{109}-SO_2-$,
- i) $HO-CH_2-C(O)-$,
- j) $R^{116}-(CH_2)_2-$,
- k) $R^{113}-C(O)-O-CH_2-C(O)-$,
- l) $(CH_3)_2N-CH_2-C(O)-NH-$,
- m) $NC-CH_2-$,
- n) $F_2-CH-CH_2-$, or
- o) $R^{150}R^{151}NSO_2$
- p) $C(O)CR_{180}R_{180}R_{181}OR_{182}$,
- q) $C(O)CH_2S(O)_iCH_3$,
- r) $C(O)CH_2S(O)(NR_{183})CH_3$,
- s) $C(S)R_{184}$,
- t) $C(O)CH_2OR_{185}$,
- u) $C(O)(CH_2)_jC(O)CH_3$,
- v) $C(O)(CH_2OH)_2CH_3$,
- w) $C(O)CH_2CH_2OR_{189}$, or
- x) $-CN$.

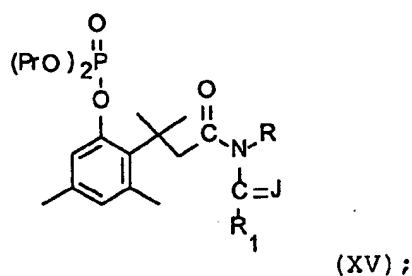
15. A method of preparing an oxazolidinone derivative having an improved water solubility comprising the steps of providing an amide of formula (III)



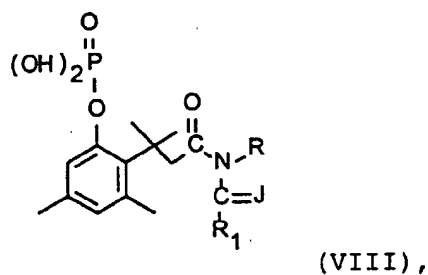
reacting the amide with a compound of formula (XIV)



to form a compound of formula (XV)



and removing the protecting groups to form a compound of formula (VIII)



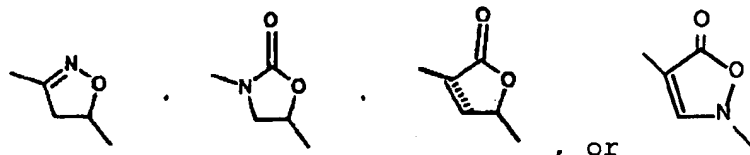
wherein J is O or S, R is $-\text{CH}_2-\text{G}-\text{A}$,

R_1 is

- a) C_{1-4} alkyl,
- b) C_{2-4} alkenyl,
- c) OC_{1-4} alkyl,
- d) C_{3-6} cycloalkyl,
- e) C_{1-4} alkyl substituted with 1-3F, 1-2Cl, CN, $-\text{COOC}_{1-4}$ alkyl or a C_{3-6} cycloalkyl; or
- f) H

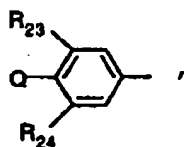
Pr is a protecting group;

G is



and

A is



R₄ is

- a) C₁₋₄ alkyl optionally substituted with one or more halos, OH, CN, NR₁₀R₁₁, or -CO₂R₁₃,
- b) C₂₋₄ alkenyl,
- c) -NR₁₆R₁₈,
- d) -N₃,
- e) -NHC(=O)R₇,
- f) -NR₂₀C(=O)R₇,
- g) -N(R₁₉)₂,
- h) -NR₁₆R₁₉, or
- i) -NR₁₉R₂₀,

R₅ and R₆ at each occurrence are the same or different and are

- a) C₁₋₂ alkyl, or
- b) R₅ and R₆ taken together are -(CH₂)_k-;

R₇ is C₁₋₄ alkyl optionally substituted with one or more halos;

R₁₀ and R₁₁ at each occurrence are the same or different and are

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₃ is

- a) H, or
- b) C₁₋₄ alkyl;

R₁₄ and R₁₅ at each occurrence are the same or different and are

- a) C₁₋₄ alkyl, or
- b) R₁₄ and R₁₅ taken together are -(CH)₁-;

R₁₆ is

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₇ is

- a) C₁₋₄ alkyl, or
- b) C₃₋₈ cycloalkyl;

R₁₈ is

- a) H,
- b) C₁₋₄ alkyl,
- c) C₂₋₄ alkenyl,
- d) C₃₋₄ cycloalkyl,
- e) -OR₁₃ or
- f) -NR₂₁R₂₂;

R₁₉ is

- a) Cl,
- b) Br, or
- c) I;

R_{20} is a physiologically acceptable cation;

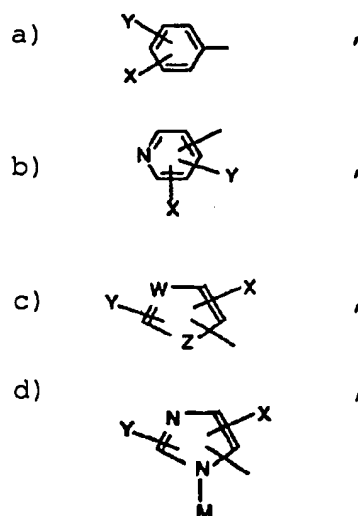
R_{21} and R_{22} at each occurrence are the same or different and are

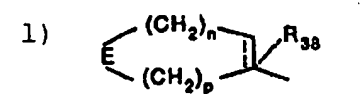
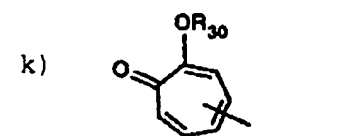
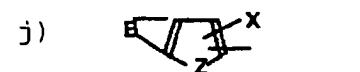
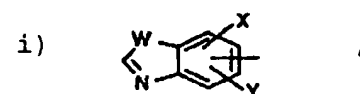
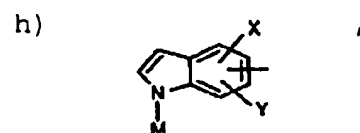
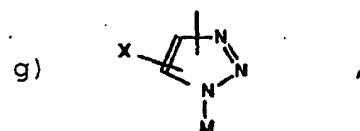
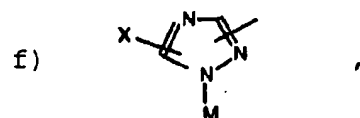
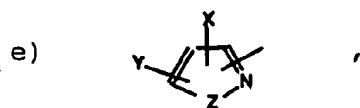
- a) H,
- b) C_{1-4} alkyl, or
- c) $-NR_{21}R_{22}$ taken together are $-(CH_2)_m-$;

wherein R_{23} and R_{24} at each occurrence are the same or different and are

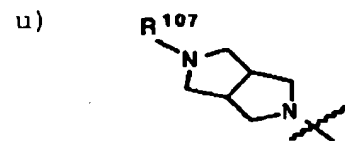
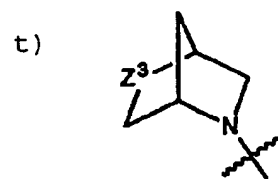
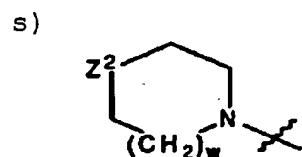
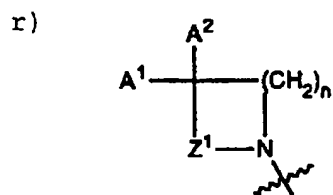
- a) H,
- b) F,
- c) Cl,
- d) C_{1-2} alkyl,
- e) CN
- f) OH,
- g) C_{1-2} alkoxy,
- h) nitro, or
- i) amino;

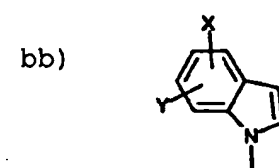
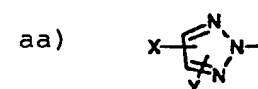
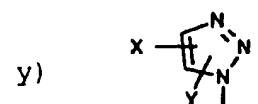
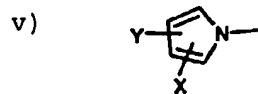
Q is

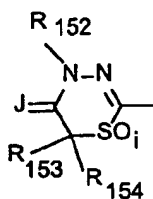




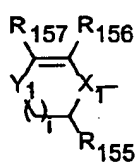
- m) a diazinyl group optionally substituted with X and Y,
- n) a triazinyl group optionally substituted with X and Y,
- o) a quinolinyl group optionally substituted with X and Y,
- p) a quinoxalinyl group optionally substituted with X and Y,
- q) a naphthyridinyl group optionally substituted with X and Y,



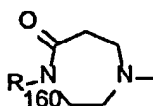




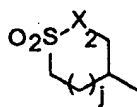
cc)



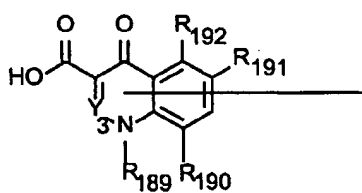
dd)



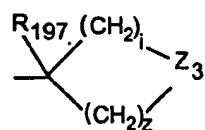
ee)



ff)

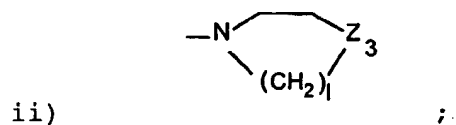


gg)

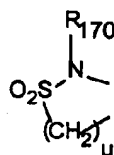
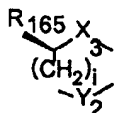


hh)

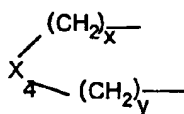
, or



Q and R₂₄ taken together are



, or



wherein Z¹ is

- a) -CH₂-,
- b) -CH(R¹⁰⁴)-CH₂-,
- c) -C(O)-, or
- d) -CH₂CH₂CH₂-;

wherein Z^2 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-N(R^{107})-$,
- d) $-OS-$,
- e) $-S-$, or
- f) $S(O)(NR_{190})$;

wherein Z^3 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-OS-$,
- d) $-S-$, or
- e) $S(O)(NR_{190})$

wherein A^1 is

- a) $H-$, or
- b) CH_3 ;

wherein A^2 is

- a) $H-$,
- b) $HO-$,
- c) CH_3- ,
- d) CH_3O- ,
- e) $R^{102}O-CH_2-C(O)-NH-$
- f) $R^{103}O-C(O)-NH-$,
- g) $(C_1-C_2)alkyl-O-C(O)-$,
- h) $HO-CH_2-$,
- i) CH_3O-NH- ,
- j) $(C_1-C_3)alkyl-O_2C-$
- k) $CH_3-C(O)-$,

l) $\text{CH}_3\text{-C(O)-CH}_2\text{-}$,

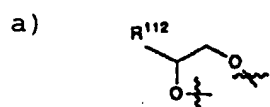
m) , or



n) ,



A¹ and A² taken together are:



b) , or



c) ;



wherein R¹⁰² is

- a) H-,
- b) CH₃-,
- c) phenyl-CH₂-, or
- d) CH₃C(O)-;


wherein R¹⁰³ is

- a) (C₁-C₃)alkyl-, or
- b) phenyl-;

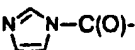
wherein R¹⁰⁴ is

- a) H-, or
- b) HO-;

wherein R^{106} is

- a) $\text{CH}_3\text{-C(O)-}$,
- b) H-C(O)- ,
- c) $\text{Cl}_2\text{CH-C(O)-}$,
- d) $\text{HOCH}_2\text{-C(O)-}$,
- e) $\text{CH}_3\text{SO}_2\text{-}$,
- f)  ,

- g) $\text{F}_2\text{CHC(O)-}$,

- h)  ,

- i) $\text{H}_3\text{C-C(O)-O-CH}_2\text{-C(O)-}$,

- j) $\text{H-C(O)-O-CH}_2\text{-C(O)-}$,

- k)  ,

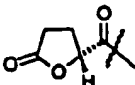
- l) $\text{HC}\equiv\text{C-CH}_2\text{O-CH}_2\text{-C(O)-}$, or

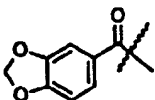
- m) $\text{phenyl-CH}_2\text{-O-CH}_2\text{-C(O)-}$;

wherein R^{107} is

- a) $\text{R}^{102}\text{O-C(R}^{110})\text{(R}^{111})\text{-C(O)-}$,
- b) $\text{R}^{103}\text{O-C(O)-}$,
- c) $\text{R}^{108}\text{-C(O)-}$,

- d)  ,

- e)  ,

f) $\text{H}_3\text{C}-\text{C}(\text{O})-(\text{CH}_2)_2-\text{C}(\text{O})-$,g) $\text{R}^{109}-\text{SO}_2-$,h)  ,i) $\text{HO}-\text{CH}_2-\text{C}(\text{O})-$,j) $\text{R}^{116}-(\text{CH}_2)_2-$,k) $\text{R}^{113}-\text{C}(\text{O})-\text{O}-\text{CH}_2-\text{C}(\text{O})-$,l) $(\text{CH}_3)_2\text{N}-\text{CH}_2-\text{C}(\text{O})-\text{NH}-$,m) $\text{NC}-\text{CH}_2-$,n) $\text{F}_2-\text{CH}-\text{CH}_2-$, oro) $\text{R}^{150}\text{R}^{151}\text{NSO}_2$ p) $\text{C}(\text{O})\text{CR}_{180}\text{R}_{180}\text{R}_{181}\text{OR}_{182}$,q) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})_i\text{CH}_3$,r) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})(\text{NR}_{183})\text{CH}_3$,s) $\text{C}(\text{S})\text{R}_{184}$,t) $\text{C}(\text{O})\text{CH}_2\text{OR}_{185}$,u) $\text{C}(\text{O})(\text{CH}_2)_j\text{C}(\text{O})\text{CH}_3$,v) $\text{C}(\text{O})(\text{CH}_2\text{OH})_2\text{CH}_3$,w) $\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{OR}_{189}$, orx) $-\text{CN}$;wherein R^{108} isa) $\text{H}-$,b) $(\text{C}_1-\text{C}_4)\text{alkyl}$,c) $\text{aryl}-(\text{CH}_2)_p$,d) $\text{ClH}_2\text{C}-$,e) $\text{Cl}_2\text{HC}-$,f) $\text{FH}_2\text{C}-$,g) $\text{F}_2\text{HC}-$,h) $(\text{C}_3-\text{C}_6)\text{cycloalkyl}$, ori) CNCH_2- .

wherein R^{109} is

- a) alkyl C_1-C_4 ,
- b) $-CH_2Cl$
- c) $-CH_2CH=CH_2$,
- d) aryl, or
- e) $-CH_2CN$;

wherein R^{110} and R^{111} are independently

- a) H-,
- b) CH_3- ; or

wherein R^{112} is

- a) H-,
- b) $CH_3O-CH_2O-CH_2-$, or
- c) $HOCH_2-$;

wherein R^{113} is

- a) CH_3- ,
- b) $HOCH_2-$,
- c) $(CH_3)_2N$ -phenyl, or
- d) $(CH_3)_2N-CH_2-$;

wherein R^{114} is

- a) HO-,
- b) CH_3O- ,
- c) H_2N- ,
- d) $CH_3O-C(O)-O-$,
- e) $CH_3-C(O)-O-CH_2-C(O)-O-$,
- f) phenyl- $CH_2-O-CH_2-C(O)-O-$,
- g) $HO-(CH_2)_2-O-$,
- h) $CH_3O-CH_2-O-(CH_2)_2-O-$, or
- i) CH_3O-CH_2-O- ;

wherein R^{115} is

- a) H-, or
- b) Cl-;

wherein R^{116} is

- a) HO-
- b) $\text{CH}_3\text{O}-$, or
- c) F;

wherein R^{150} and R^{151} are each H or alkyl $\text{C}_1\text{-C}_4$ or R^{150} and R^{151} taken together with the nitrogen atom to which each is attached form a monocyclic heterocyclic ring having from 3 to 6 carbon atoms;

R_{152} is

- a) H,
- b) C_{1-4} alkyl,
- c) C_{1-4} heteroalkyl,
- d) $(\text{CH}_2)_i\text{C}(=\text{O})\text{OC}_{1-4}$ alkyl,
- e) $(\text{CH}_2)_i\text{C}(=\text{O})\text{C}_{1-4}$ alkyl,
- f) aryl, or
- g) het^1 ;

R_{153} and R_{154} are independently

- a) H,
- b) F,
- c) C_{1-4} alkyl,
- d) C_{3-6} cycloalkyl,
- e) C_{1-4} heteroalkyl,
- f) aryl,
- g) het^1 ,
- h) OC_{1-4} alkyl,
- i) $\text{O}(\text{C}=\text{O})\text{C}_{1-4}$ alkyl,
- j) $(\text{C}=\text{O})\text{OC}_{1-4}$ alkyl; or
- k) R_{153} and R_{154} taken together are C_{3-6} cycloalkyl;

R₁₅₅ is

- a) H,
- b) F,
- c) C₁₋₄alkyl,
- d) OC₁₋₄alkyl,
- e) SC₁₋₄alkyl, or
- f) NHC₁₋₄alkyl;

R₁₅₆ is

- a) H,
- b) C₁₋₄alkyl,
- c) OC₁₋₄alkyl,
- d) SC₁₋₄alkyl, or
- e) NHC₁₋₄alkyl;

R₁₅₇ is

- a) -H,
- b) -F,
- c) -Cl,
- d) -NH₂,
- e) -OH,
- f) -CN,
- g) -C₁₋₄alkyl,
- h) -OC₁₋₄alkyl,
- i) -C₁₋₄alkyl-W-C₁₋₄alkyl,
- j) -NHC₁₋₄alkyl,
- k) -(CH₂)₁C₃₋₆cycloalkyl,
- l) -C(=O)C₁₋₄alkyl,
- m) -OC(=O)C₁₋₄alkyl,
- n) -C(=O)OC₁₋₄alkyl,
- o) -S(O)₁C₁₋₄alkyl, or
- p) -C(=O)NHC₁₋₄alkyl;

R₁₅₈ is

- a) -H,
- b) -CH₃,
- c) -F, or
- d) -OH;

R₁₅₉ is

- a) -H,
- b) -C₁₋₄alkyl,
- c) -C(=O)C₁₋₄alkyl,
- d) -C(=O)NHC₁₋₄alkyl,
- e) -OC(=O)C₁₋₄alkyl,
- f) -C(=O)OC₁₋₄alkyl, or
- g) -S(O)₁C₁₋₄alkyl, or
- h) -C₁₋₄alkyl-W₁-C₁₋₄alkyl;

R₁₆₀ is H, C₂₋₆ alkenyl, C₂₋₇alkynyl, C₁₋₆ alkyl substituted with one or two of the following:

- a) F,
- b) Cl,
- c) CF₃,
- d) -OH,
- e) C₁₋₄alkoxy,
- f) -CH₂C(=O)C₁₋₄alkyl,
- g) -OC(=O)N(R₁₆₁)₂,
- h) C₁₋₄alkyl S(O)_n, (wherein n is 0, 1 or 2),
- i) -CN,
- j) carboxy,
- k) -C₁₋₄alkoxycarbonyl,
- l) -C(=O)N(R₁₆₁)₂,
- m) -N(R₁₆₁)SO₂C₁₋₄ alkyl,
- n) -N(R₁₆₁)C(=O)C₁₋₄ alkyl,
- o) -N(R₁₆₁)C(=O)N(R₄)₂,

- p) $-N(R_{161})C(=O)C_{1-4}$ alkoxy,
- q) aryl, or
- r) Het₁;

R₁₆₁ is

- a) H, or
- b) C₁₋₃ alkyl;

R₁₆₂ is

- a) H,
- b) C₁₋₈ alkyl, optionally substituted with one to three F, Cl, OH, CN, NH₂, OC(=O)C₁₋₄alkyl, or OC₁₋₄ alkyl,
- c) C₃₋₈ alkene, or
- d) C(=O)NR₁₆₃R₁₆₄;

R₁₆₃ and R₁₆₄ are independently

- a) H, or
- b) C₁₋₈ alkyl, optionally substituted with one to three F, Cl, OH, CN, or NH₂;

R₁₆₅ is C₁₋₄ alkyl, optionally substituted with 1-3 R₁₆₈;

R₁₆₆ is

- a) C₁₋₈ alkyl, optionally substituted with 1-3 halo, CN, NO₂, OH, SH or NH₂,
- b) $-C(=O)R_{167}$ or
- c) $-C(=S)NHC_{1-4}$ alkyl;

R₁₆₇ is

- a) H,
- b) C₁₋₆ alkyl, optionally substituted with OH, C₁₋₄ alkoxy, NH₂, SH or halo, or
- c) $-CH_2OC(=O)C_{1-4}$ alkyl;

R₁₆₈ is

- j) halo,
- k) -CN,
- l) -OH,
- m) -SH,
- n) -NH₂,
- o) -OR₁₆₉,
- p) -NHR₁₆₉,
- q) -N(R₁₆₉)₂, or
- r) -S(=O)_iR₁₆₉;

R₁₆₉ is

- g) C₁₋₆ alkyl,
- h) -C(=O)C₁₋₄ alkyl,
- i) -C(=O)OC₁₋₄ alkyl,
- j) -C(=O)NH₂,
- k) -C(=O)NHC₁₋₄ alkyl, or
- l) -SO₂C₁₋₄ alkyl;

with the proviso that where j is 0, Y₂ is -CH₂-.

R₁₇₀ is

- a) H,
- b) C₁₋₁₂ alkyl, optionally substituted with phenyl or CN, or
- c) C₂₋₁₂ alkyl substituted with OH, SH, NH₂, -OC₁₋₆ alkyl, -NHC₁₋₆ alkyl, -NHCOC₁₋₆ alkyl, -NHSO₂C₁₋₆ alkyl, -S(O)_iC₁₋₆ alkyl, or one to three halo;

R₁₇₂ is

- a) H,
- b) C₁₋₈ alkyl,
- c) aryl,
- d) het₁,
- e) C(=W)R₁₇₄,
- f) C(=O)OR₁₇₅, or
- g) S(=O)_iR₁₇₆;

R₁₇₃ is

- a) H, or
- b) C₁₋₈ alkyl;

R₁₇₄ is

- a) H,
- b) aryl,
- c) het₁,
- d) NR₁₇₇R₁₇₈, or
- e) C₁₋₈ alkyl;

R₁₇₅ is

- a) C₁₋₈ alkyl,
- b) aryl, or
- c) het₁;

R₁₇₆ is

- a) aryl,
- b) het₁,
- c) NR₁₇₇R₁₇₈, or
- d) C₁₋₈ alkyl;

R₁₇₇ and R₁₇₈ are independently

- a) H,
- b) C₁₋₈ alkyl, or
- c) aryl;

R₁₈₀ and R₁₈₁ taken together form C₃₋₅ cycloalkyl;

R₁₈₂ is H, CH₃ or C₁₋₄ alkanoyl;

R₁₈₃ is H, C₁₋₄ alkyl, C₁₋₄ alkanoyl, -C(=O)NH-C₁₋₄ alkyl or -CO₂C₁₋₄ alkyl;

R_{184} is C_{1-4} alkyl, CH_2OR_{186} , $S-C_{1-4}$ alkyl, OC_{1-4} alkyl, or $NR_{187}R_{188}$;

R_{185} is phenyl, $-CO_2-(CH_2)_2-OCH_3$, $-P(=O)(OH)_2$, $-C(=O)-NR_{187}R_{186}$, or $-C(=O)-(CH_2)_2-CO_2H$;

R_{186} is H, phenyl, benzyl, CH_3 or $C(=O)CH_3$;

R_{187} and R_{188} are independently H or C_{1-3} alkyl; or R_{187} and R_{188} taken together form a 5- or 6-membered saturated heterocycle, wherein said saturated heterocycle may further contain one or two additional hetero-atoms selected from a group consisting of O, $S(O)_n$ or NR_{182} ;

R_{189} is H, CH_3 or benzyl;

R_{190} is

- a) H,
- b) C_{1-4} alkyl,
- c) $C(=O)C_{1-4}$ alkyl,
- d) $C(=O)OC_{1-4}$ alkyl,
- e) $C(=O)NHR_{191}$, or
- f) $C(=S)NHR_{191}$;

R_{191} is H, C_{1-4} alkyl, or phenyl;

at each occurrence, alkyl in R_{190} and R_{191} is optionally substituted with one or more halo, CN, NO_2 , phenyl, C_{3-6} cycloalkyl, OR_{192} , $C(=O)R_{192}$, $OC(=O)R_{192}$, $C(=O)OR_{192}$, $SC(=O)R_{192}$, $S(=O)_2NR_{192}R_{192}$, $NR_{192}R_{192}$, $NR_{192}SO_2R_{192}$, $NR_{192}SO_2R_{192}R_{192}$, $NR_{192}C(=O)R_{192}$, $C(=O)NR_{192}R_{192}$, $NR_{192}R_{192}$, oxo or oxime;

R_{192} is H, C_{1-4} alkyl, or phenyl;

at each occurrence, phenyl in R_{191} and R_{192} is optionally substituted with one or more halo, CN, NO_2 , phenyl, C_{3-6}

cycloalkyl, OR_{192} , $\text{C}(=\text{O})\text{R}_{192}$, $\text{OC}(=\text{O})\text{R}_{192}$, $\text{C}(=\text{O})\text{OR}_{192}$,
 $\text{S}(=\text{O})_2\text{R}_{192}$, $\text{S}(=\text{O})_2\text{NR}_{192}\text{R}_{192}$, $\text{NR}_{192}\text{SO}_2\text{R}_{192}$, $\text{NR}_{192}\text{SO}_2\text{NR}_{192}\text{R}_{192}$,
 $\text{NR}_{192}\text{C}(=\text{O})\text{R}_{192}$, $\text{C}(=\text{O})\text{NR}_{192}\text{R}_{192}$, or $\text{NR}_{192}\text{R}_{192}$;

R_{193} is selected from the group consisting of null, H,
 $\text{C}_1\text{-C}_4$ alkyl, $\text{C}_3\text{-C}_5$ cycloalkyl, $\text{C}_1\text{-C}_4$ haloalkyl, and halophenyl;

R_{194} is selected from the group consisting of H, alkyl,
 $\text{C}_1\text{-C}_2$ alkoxy, halo, and haloalkoxy, or R_{193} and R_{194} can be
taken together to form a 5- or 6-membered, optionally
substituted, heteroalkyl or heteroaryl ring;

R_{195} is H or F;

R_{196} is selected from the group consisting of H, methyl,
amino, and F;

R_{197} is H, CH_3 , or F;

B is an unsaturated 4-atom linker having one nitrogen and
three carbons;

M is

- a) H,
- b) C_{1-8} alkyl,
- c) C_{3-8} cycloalkyl,
- d) $-(\text{CH}_2)_m\text{OR}_{13}$, or
- e) $-(\text{CH}_2)_n\text{-NR}_{21}\text{R}_{22}$;

Z is

- a) O,
- b) S, or
- c) NM;

W is

- a) CH,
- b) N, or
- c) S or O when Z is NM;

Y is

- a) H,
- b) F,
- c) Cl,
- d) Br,
- e) C₁₋₃ alkyl, or
- f) NO₂;

X is

- a) H,
- b) -CN,
- c) OR₂₇,
- d) halo,
- e) NO₂,
- f) tetrazoyl,
- g) -SH,
- h) -S(=O)_iR₄,
- i) -S(=O)₂-N=S(O)_jR₅R₆,
- j) -SC(=O)R₇,
- k) -C(=O)R₂₅,
- l) -C(=O)NR₂₇R₂₈,
- m) -C(=NR₂₉)R₂₅,
- n) -C(R₂₅)(R₂₈)-OR₁₃,
- o) -C(R₂₅)(R₂₈)-OC(=O)R₁₃,
- p) -C(R₂₈)(OR₁₃)-(CH₂)_n-NR₂₇R₂₈,
- q) -NR₂₇R₂₈,
- r) -N(R₂₇)C(=O)R₇,
- s) -N(R₂₇)-S(=O)_iR₇,
- t) -C(OR₁₄)(OR₁₅)R₂₈,
- u) -C(R₂₅)(R₁₆)-NR₂₇R₂₆, or

- v) C₁₋₈ alkyl substituted with one or more halos, OH, =O other than at alpha position, -S(=O)_iR₁₇, -NR₂₇R₂₈, C₂₋₅ alkenyl, C₂₋₅ alkynyl, or C₃₋₈ cycloalkyl;

X₁ is N or CR₁₅₈;

Y₁ is

- a) S(O)_i,
- b) S(NR₁₅₉), or
- c) S(NR₁₅₉)(O);

W₁ is O or S;

X₂ is O or NR₁₆₂;

X₃ is S(O)_i or NR₁₆₆;

Y₂ is

- a) O
- b) NH,
- c) CH₂, or
- d) S(O)_i;

X₄ is

- a) O
- b) NR₁₇₂,
- c) S(O)_i, or
- d) S(O)(NR₁₇₃); and

Y₃ is CH or N;

R₄, R₅, R₆, R₇, R₁₃, R₁₄, R₁₅, R₁₆, and R₁₇ are the same as defined above;

R₂₅ is

- a) H,
- b) C₁₋₈ alkyl optionally substituted with one or more halos, C₃₋₈ cycloalkyl, C₁₋₄ alkyl substituted with one or more of -S(=O)_iR₁₇, -OR₁₃, or OC(=O)R₁₃, NR₂₇R₂₈, or
- c) C₂₋₅ alkenyl optionally substituted with CHO, or CO₂R₁₃;

R₂₆ is

- a) R₂₈, or
- b) NR₂₇NR₂₈;

R₂₇ and R₂₈ at each occurrence are the same or different and are

- a) H,
- b) C₁₋₈ alkyl,
- c) C₃₋₈ cycloalkyl,
- d) -(CH₂)_mOR₁₃,
- e) -(CH₂)_n-NR₂₁R₂₂, or
- f) R₂₇ and R₂₈ taken together are -(CH₂)₂O(CH₂)₂-, -(CH₂)_nCH(COR₇)-, or -(CH₂)₂N(CH₂)₂(R₇);

R₂₉ is

- a) -NR₂₇R₂₈,
- b) -OR₂₇, or
- c) -NHC(=O)R₂₈;

wherein R₃₀ is

- a) H,
- b) C₁₋₈ alkyl optionally substituted with one or more halos, or
- c) C₁₋₈ alkyl optionally substituted with one or more OH, or C₁₋₆ alkoxy;

wherein E is

- a) NR_{39} ,
- b) $-\text{S}(=\text{O})_1$,
- c) O, or
- d) $\text{S}(\text{O})(\text{NR}_{190})$;

R_{38} is

- a) H,
- b) C_{1-6} alkyl,
- c) $-(\text{CH}_2)_q\text{-aryl}$, or
- d) halo;

R_{39} is

- a) H,
- b) C_{1-6} alkyl optionally substituted with one or more OH, halo, or $-\text{CN}$,
- c) $-(\text{CH}_2)_q\text{-aryl}$,
- d) $-\text{CO}_2\text{R}_{40}$,
- e) $-\text{COR}_{41}$,
- f) $-\text{C}(=\text{O})-(\text{CH}_2)_q-\text{C}(=\text{O})\text{R}_{40}$,
- g) $-\text{S}(=\text{O})_2-\text{C}_{1-6}$ alkyl,
- h) $-\text{S}(=\text{O})_2-(\text{CH}_2)_q\text{-aryl}$, or
- i) $-(\text{C}=\text{O})_3\text{-Het}$;

R_{40} is

- a) H,
- b) C_{1-6} alkyl optionally substituted with one or more OH, halo, or $-\text{CN}$,
- c) $-(\text{CH}_2)_q\text{-aryl}$, or
- d) $-(\text{CH}_2)_q\text{-OR}_{42}$;

R₄₁ is

- a) C₁₋₆ alkyl optionally substituted with one or more OH, halo, or -CN,
- b) -(CH₂)_q-aryl, or
- c) -(CH₂)_q-OR₄₂;

R₄₂ is

- a) H,
- b) C₁₋₆ alkyl,
- c) -(CH₂)_q-aryl, or
- d) -C(=O)-C₁₋₆ alkyl;

aryl is

- a) phenyl,
- b) pyridyl, or
- c) naphthyl; a to c optionally substituted with one or more halo, -CN, OH, SH, C₁₋₆ alkyl, C₁₋₆ alkoxy, or C₁₋₆ alkylthio;

h is 1, 2, or 3;

i is 0, 1, or 2;

j is 0 or 1, with the proviso that when j is 0, Y₂ is -CH₂-;

k is 3, 4, or 5;

l is 2 or 3;

m is 4 or 5;

n is 0, 1, 2, 3, 4, or 5;

p is 0, 1, 2, 3, 4, or 5; with the proviso that n and p together are 1, 2, 3, 4, or 5;

q is 1, 2, 3, or 4;

u is 1 or 2;

w is 0, 1, 2, or 3;

x is 0, 1, 2, 3 or 4; and

y is 0, 1, 2, 3 or 4; with the proviso that x and y taken together are 3 or 4;

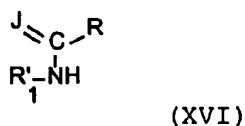
z is 1, 2, 3, 4 or 5, provided that i and z taken together are 2, 3, 4 or 5.

16. The method of Claim 15, wherein

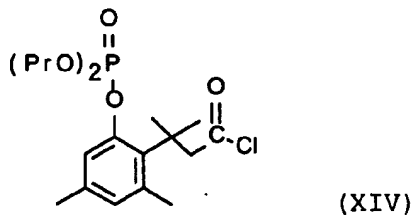


17. The method of Claim 15, wherein the compound of formula (VIII) is 2-{3-[Acetyl({(5S)-3-[4-(1,1-dioxidotetrahydro-2H-thiopyran-4-yl)-3-fluorophenyl]-2-oxo-1,3-oxazolidin-5-yl)methyl)amino]-1,1-dimethyl-3-oxopropyl}-3,5-dimethylphenyldihydrogen phosphate.

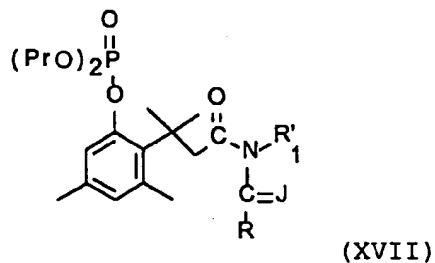
18. A method of preparing an oxazolidinone derivative having an improved water solubility comprising the steps of providing an amide of formula (XVI)



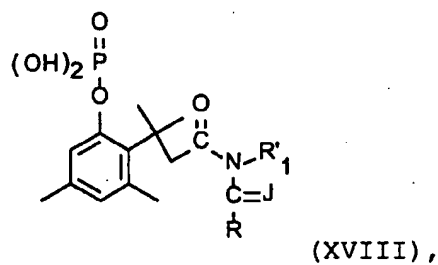
reacting the amide with a compound of formula (XIV)



to form a compound of formula (XVII)



and removing the protecting groups to form a compound of formula (XVIII)



wherein J is O or S;

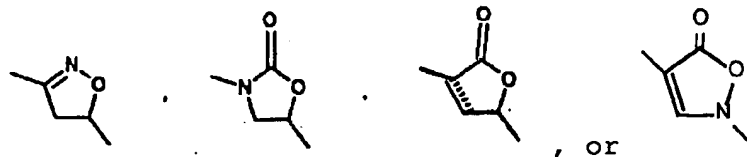
R_1' is

- a) H,
- b) OH,
- c) alkyl,
- d) alkoxy,
- e) alkenyl,
- f) amino,
- g) substituted alkyl,
- h) substituted alkoxy,
- i) substituted alkenyl, or
- j) substituted amino;

Pr is a protecting group;

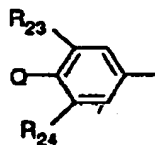
R is -G-A;

G is



and

A is



R₄ is

- a) C₁₋₄ alkyl optionally substituted with one or more halos, OH, CN, NR₁₀R₁₁, or -CO₂R₁₃,
- b) C₂₋₄ alkenyl,
- c) -NR₁₆R₁₈,
- d) -N₃,
- e) -NHC(=O)R₇,
- f) -NR₂₀C(=O)R₇,
- g) -N(R₁₉)₂,
- h) -NR₁₆R₁₉, or
- i) -NR₁₉R₂₀,

R₅ and R₆ at each occurrence are the same or different and are

- a) C₁₋₂ alkyl, or
- b) R₅ and R₆ taken together are -(CH₂)_k-;

R₇ is C₁₋₄ alkyl optionally substituted with one or more halos;

R₁₀ and R₁₁ at each occurrence are the same or different and are

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₃ is

- a) H, or
- b) C₁₋₄ alkyl;

R₁₄ and R₁₅ at each occurrence are the same or different and are

- a) C₁₋₄ alkyl, or
- b) R₁₄ and R₁₅ taken together are -(CH)₁-;

R₁₆ is

- a) H,
- b) C₁₋₄ alkyl, or
- c) C₃₋₈ cycloalkyl;

R₁₇ is

- a) C₁₋₄ alkyl, or
- b) C₃₋₈ cycloalkyl;

R₁₈ is

- a) H,
- b) C₁₋₄ alkyl,
- c) C₂₋₄ alkenyl,
- d) C₃₋₄ cycloalkyl,
- e) -OR₁₃ or
- f) -NR₂₁R₂₂;

R₁₉ is

- a) Cl,
- b) Br, or
- c) I;

R₂₀ is a physiologically acceptable cation;

R₂₁ and R₂₂ at each occurrence are the same or different and are

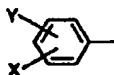
- a) H,
- b) C₁₋₄ alkyl, or
- c) -NR₂₁R₂₂ taken together are -(CH₂)_m-;

wherein R₂₃ and R₂₄ at each occurrence are the same or different and are

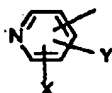
- a) H,
- b) F,
- c) Cl,
- d) C₁₋₂ alkyl,
- e) CN
- f) OH,
- g) C₁₋₂ alkoxy,
- h) nitro, or
- i) amino;

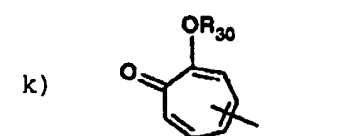
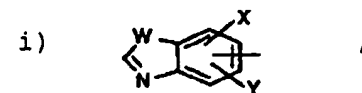
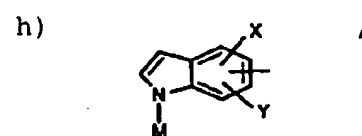
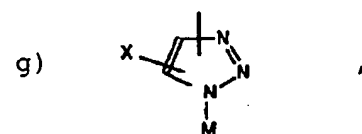
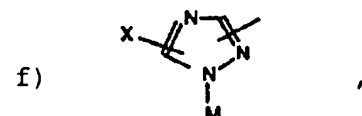
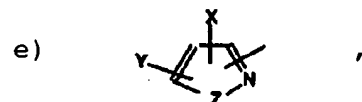
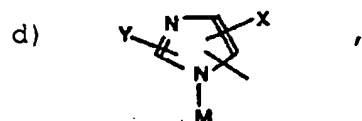
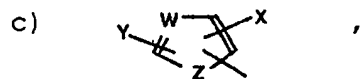
Q is

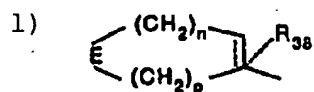
a)



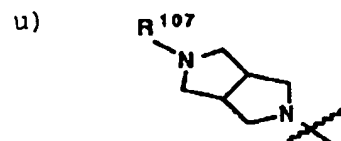
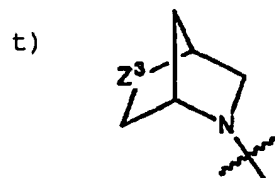
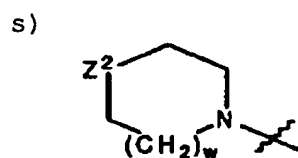
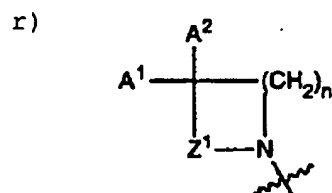
b)

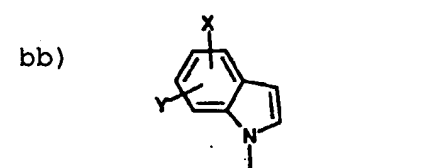
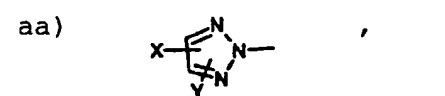
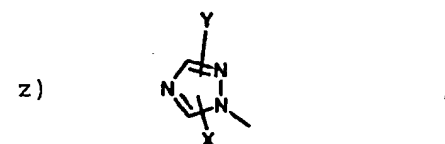
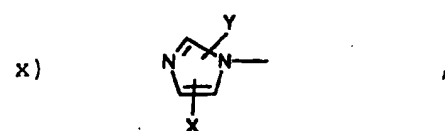
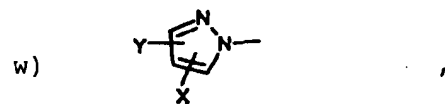
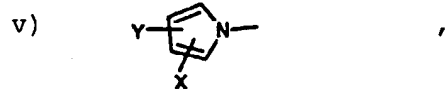


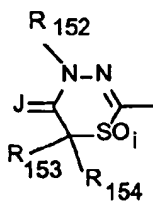




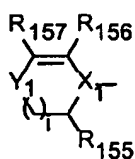
- m) a diazinyl group optionally substituted with X and Y,
- n) a triazinyl group optionally substituted with X and Y,
- o) a quinolinyl group optionally substituted with X and Y,
- p) a quinoxaliny group optionally substituted with X and Y,
- q) a naphthyridinyl group optionally substituted with X and Y,



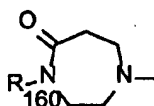




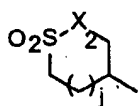
cc)



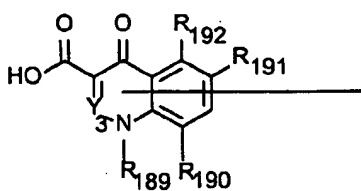
dd)



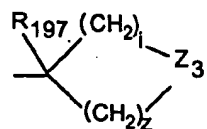
ee)



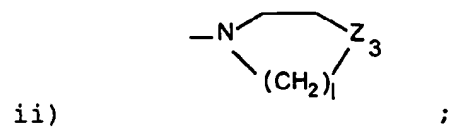
ff)



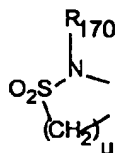
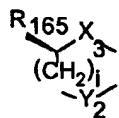
gg)



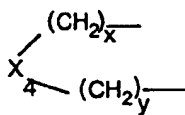
hh)



Q and R₂₄ taken together are



, or



wherein Z¹ is

- a) -CH₂-,
- b) -CH(R¹⁰⁴)-CH₂-,
- c) -C(O)-, or
- d) -CH₂CH₂CH₂-;

wherein Z^2 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-N(R^{107})-$,
- d) $-OS-$,
- e) $-S-$, or
- f) $S(O)(NR_{190})$;

wherein Z^3 is

- a) $-O_2S-$,
- b) $-O-$,
- c) $-OS-$,
- d) $-S-$, or
- e) $S(O)(NR_{190})$

wherein A^1 is

- a) $H-$, or
- b) CH_3 ;

wherein A^2 is

- a) $H-$,
- b) $HO-$,
- c) CH_3- ,
- d) CH_3O- ,
- e) $R^{102}O-CH_2-C(O)-NH-$
- f) $R^{103}O-C(O)-NH-$,
- g) $(C_1-C_2)alkyl-O-C(O)-$,
- h) $HO-CH_2-$,
- i) CH_3O-NH- ,
- j) $(C_1-C_3)alkyl-O_2C-$
- k) $CH_3-C(O)-$,
- l) $CH_3-C(O)-CH_2-$,

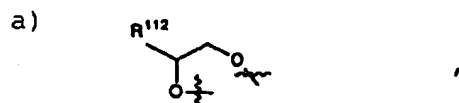
m) , or



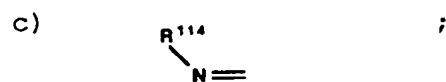
n) ,



A¹ and A² taken together are:



b) , or



wherein R¹⁰² is

- a) H-,
- b) CH₃-,
- c) phenyl-CH₂-, or
- d) CH₃C(O)-;

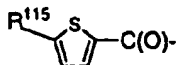
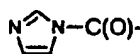
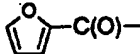
wherein R¹⁰³ is

- a) (C₁-C₃)alkyl-, or
- b) phenyl-;

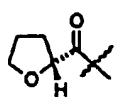
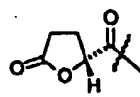
wherein R¹⁰⁴ is

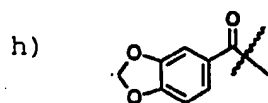
- a) H-, or
- b) HO-;

wherein R^{106} is

- a) $\text{CH}_3\text{-C(O)-}$,
- b) H-C(O)- ,
- c) $\text{Cl}_2\text{CH-C(O)-}$,
- d) $\text{HOCH}_2\text{-C(O)-}$,
- e) $\text{CH}_3\text{SO}_2\text{-}$,
- f) ,
- g) $\text{F}_2\text{CHC(O)-}$,
- h) ,
- i) $\text{H}_3\text{C-C(O)-O-CH}_2\text{-C(O)-}$,
- j) $\text{H-C(O)-O-CH}_2\text{-C(O)-}$,
- k) ,
- l) $\text{HC}\equiv\text{C-CH}_2\text{O-CH}_2\text{-C(O)-}$, or
- m) $\text{phenyl-CH}_2\text{-O-CH}_2\text{-C(O)-}$;

wherein R^{107} is

- a) $\text{R}^{102}\text{O-C(R}^{110})\text{(R}^{111})\text{-C(O)-}$,
- b) $\text{R}^{103}\text{O-C(O)-}$,
- c) $\text{R}^{108}\text{-C(O)-}$,
- d) ,
- e) ,
- f) $\text{H}_3\text{C-C(O)-(CH}_2)_2\text{-C(O)-}$,
- g) $\text{R}^{109}\text{-SO}_2\text{-}$,



- i) $\text{HO}-\text{CH}_2-\text{C}(\text{O})-$,
- j) $\text{R}^{116}-(\text{CH}_2)_2-$,
- k) $\text{R}^{113}-\text{C}(\text{O})-\text{O}-\text{CH}_2-\text{C}(\text{O})-$,
- l) $(\text{CH}_3)_2\text{N}-\text{CH}_2-\text{C}(\text{O})-\text{NH}-$,
- m) $\text{NC}-\text{CH}_2-$,
- n) $\text{F}_2-\text{CH}-\text{CH}_2-$, or
- o) $\text{R}^{150}\text{R}^{151}\text{NSO}_2$
- p) $\text{C}(\text{O})\text{CR}_{180}\text{R}_{180}\text{R}_{181}\text{OR}_{182}$,
- q) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})_i\text{CH}_3$,
- r) $\text{C}(\text{O})\text{CH}_2\text{S}(\text{O})(\text{NR}_{183})\text{CH}_3$,
- s) $\text{C}(\text{S})\text{R}_{184}$,
- t) $\text{C}(\text{O})\text{CH}_2\text{OR}_{185}$,
- u) $\text{C}(\text{O})(\text{CH}_2)_j\text{C}(\text{O})\text{CH}_3$,
- v) $\text{C}(\text{O})(\text{CH}_2\text{OH})_2\text{CH}_3$,
- w) $\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{OR}_{189}$, or
- x) $-\text{CN}$;

wherein R^{108} is

- a) $\text{H}-$,
- b) $(\text{C}_1-\text{C}_4)\text{alkyl}$,
- c) $\text{aryl}-(\text{CH}_2)_p$,
- d) $\text{ClH}_2\text{C}-$,
- e) $\text{Cl}_2\text{HC}-$,
- f) $\text{FH}_2\text{C}-$,
- g) $\text{F}_2\text{HC}-$,
- h) $(\text{C}_3-\text{C}_6)\text{cycloalkyl}$, or
- i) CNCH_2- .

wherein R^{109} is

- a) $\text{alkylC}_1-\text{C}_4$,
- b) $-\text{CH}_2\text{Cl}$

- c) $-\text{CH}_2\text{CH}=\text{CH}_2$,
- d) aryl, or
- e) $-\text{CH}_2\text{CN}$;

wherein R^{110} and R^{111} are independently

- a) $\text{H}-$,
- b) CH_3- ; or

wherein R^{112} is

- a) $\text{H}-$,
- b) $\text{CH}_3\text{O}-\text{CH}_2\text{O}-\text{CH}_2-$, or
- c) HOCH_2- ;

wherein R^{113} is

- a) CH_3- ,
- b) HOCH_2- ,
- c) $(\text{CH}_3)_2\text{N-phenyl}$, or
- d) $(\text{CH}_3)_2\text{N-CH}_2-$;

wherein R^{114} is

- a) $\text{HO}-$,
- b) $\text{CH}_3\text{O}-$,
- c) $\text{H}_2\text{N}-$,
- d) $\text{CH}_3\text{O}-\text{C}(\text{O})-\text{O}-$,
- e) $\text{CH}_3-\text{C}(\text{O})-\text{O}-\text{CH}_2-\text{C}(\text{O})-\text{O}-$,
- f) $\text{phenyl-CH}_2-\text{O}-\text{CH}_2-\text{C}(\text{O})-\text{O}-$,
- g) $\text{HO}-(\text{CH}_2)_2-\text{O}-$,
- h) $\text{CH}_3\text{O}-\text{CH}_2-\text{O}-(\text{CH}_2)_2-\text{O}-$, or
- i) $\text{CH}_3\text{O}-\text{CH}_2-\text{O}-$;

wherein R^{115} is

- a) $\text{H}-$, or
- b) $\text{Cl}-$;

wherein R^{116} is

- a) HO-
- b) $\text{CH}_3\text{O}-$, or
- c) F;

wherein R^{150} and R^{151} are each H or alkyl $\text{C}_1\text{-C}_4$ or R^{150} and R^{151} taken together with the nitrogen atom to which each is attached form a monocyclic heterocyclic ring having from 3 to 6 carbon atoms;

R_{152} is

- a) H,
- b) C_{1-4} alkyl,
- c) C_{1-4} heteroalkyl,
- d) $(\text{CH}_2)_i\text{C}(=\text{O})\text{OC}_{1-4}$ alkyl,
- e) $(\text{CH}_2)_i\text{C}(=\text{O})\text{C}_{1-4}$ alkyl,
- f) aryl, or
- g) het^1 ;

R_{153} and R_{154} are independently

- a) H,
- b) F,
- c) C_{1-4} alkyl,
- d) C_{3-6} cycloalkyl,
- e) C_{1-4} heteroalkyl,
- f) aryl,
- g) het^1 ,
- h) OC_{1-4} alkyl,
- i) $\text{O}(\text{C}=\text{O})\text{C}_{1-4}$ alkyl,
- j) $(\text{C}=\text{O})\text{OC}_{1-4}$ alkyl; or
- k) R_{153} and R_{154} taken together are C_{3-6} cycloalkyl;

R_{155} is

- a) H,
- b) F,

- c) C₁₋₄alkyl,
- d) OC₁₋₄alkyl,
- e) SC₁₋₄alkyl, or
- f) NHC₁₋₄alkyl;

R₁₅₆ is

- a) H,
- b) C₁₋₄alkyl,
- c) OC₁₋₄alkyl,
- d) SC₁₋₄alkyl, or
- e) NHC₁₋₄alkyl;

R₁₅₇ is

- a) -H,
- b) -F,
- c) -Cl,
- d) -NH₂,
- e) -OH,
- f) -CN,
- g) -C₁₋₄alkyl,
- h) -OC₁₋₄alkyl,
- i) -C₁₋₄alkyl-W-C₁₋₄alkyl,
- j) -NHC₁₋₄alkyl,
- k) -(CH₂)₁C₃₋₆cycloalkyl,
- l) -C(=O)C₁₋₄alkyl,
- m) -OC(=O)C₁₋₄alkyl,
- n) -C(=O)OC₁₋₄alkyl,
- o) -S(O)₁C₁₋₄alkyl, or
- p) -C(=O)NHC₁₋₄alkyl;

R₁₅₈ is

- a) -H,
- b) -CH₃,
- c) -F, or
- d) -OH;

R₁₅₉ is

- a) -H,
- b) -C₁₋₄alkyl,
- c) -C(=O)C₁₋₄alkyl,
- d) -C(=O)NHC₁₋₄alkyl,
- e) -OC(=O)C₁₋₄alkyl,
- f) -C(=O)OC₁₋₄alkyl, or
- g) -S(O)₁C₁₋₄alkyl, or
- h) -C₁₋₄alkyl-W₁-C₁₋₄alkyl;

R₁₆₀ is H, C₂₋₆ alkenyl, C₂₋₇alkynyl, C₁₋₆ alkyl substituted with one or two of the following:

- a) F,
- b) Cl,
- c) CF₃,
- d) -OH,
- e) C₁₋₄alkoxy,
- f) -CH₂C(=O)C₁₋₄alkyl,
- g) -OC(=O)N(R₁₆₁)₂,
- h) C₁₋₄alkyl S(O)_n, (wherein n is 0, 1 or 2),
- i) -CN,
- j) carboxy,
- k) -C₁₋₄alkoxycarbonyl,
- l) -C(=O)N(R₁₆₁)₂,
- m) -N(R₁₆₁)SO₂C₁₋₄ alkyl,
- n) -N(R₁₆₁)C(=O)C₁₋₄ alkyl,
- o) -N(R₁₆₁)C(=O)N(R₄)₂,
- p) -N(R₁₆₁)C(=O)C₁₋₄ alkoxy,
- q) aryl, or
- r) Het₁;

R₁₆₁ is

- a) H, or
- b) C₁₋₃ alkyl;

R₁₆₂ is

- a) H,
- b) C₁₋₈ alkyl, optionally substituted with one to three F, Cl, OH, CN, NH₂, OC(=O)C₁₋₄alkyl, or OC₁₋₄ alkyl,
- c) C₃₋₈ alkene, or
- d) C(=O)NR₁₆₃R₁₆₄;

R₁₆₃ and R₁₆₄ are independently

- a) H, or
- b) C₁₋₈ alkyl, optionally substituted with one to three F, Cl, OH, CN, or NH₂;

R₁₆₅ is C₁₋₄ alkyl, optionally substituted with 1-3 R₁₆₈;

R₁₆₆ is

- a) C₁₋₈ alkyl, optionally substituted with 1-3 halo, CN, NO₂, OH, SH or NH₂,
- b) -C(=O)R₁₆₇ or
- c) -C(=S)NHC₁₋₄ alkyl;

R₁₆₇ is

- a) H,
- b) C₁₋₆ alkyl, optionally substituted with OH, C₁₋₄ alkoxy, NH₂, SH or halo, or
- c) -CH₂OC(=O)C₁₋₄ alkyl;

R₁₆₈ is

- j) halo,
- k) -CN,
- l) -OH,
- m) -SH,
- n) -NH₂,
- o) -OR₁₆₉,

- p) $-\text{NHR}_{169}$,
- q) $-\text{N}(\text{R}_{169})_2$, or
- r) $-\text{S}(=\text{O})_i\text{R}_{169}$;

R_{169} is

- g) C_{1-6} alkyl,
- h) $-\text{C}(=\text{O})\text{C}_{1-4}$ alkyl,
- i) $-\text{C}(=\text{O})\text{O C}_{1-4}$ alkyl,
- j) $-\text{C}(=\text{O})\text{NH}_2$,
- k) $-\text{C}(=\text{O})\text{NH C}_{1-4}$ alkyl, or
- l) $-\text{SO}_2 \text{C}_{1-4}$ alkyl;

with the proviso that where j is 0, Y_2 is $-\text{CH}_2-$.

R_{170} is

- a) H,
- b) C_{1-12} alkyl, optionally substituted with phenyl or CN, or
- c) C_{2-12} alkyl substituted with OH, SH, NH_2 , $-\text{OC}_{1-6}$ alkyl, $-\text{NHC}_{1-6}$ alkyl, $-\text{NHCOC}_{1-6}$ alkyl, $-\text{NH}\text{SO}_2\text{C}_{1-6}$ alkyl, $-\text{S}(\text{O})_i\text{C}_{1-6}$ alkyl, or one to three halo;

R_{172} is

- a) H,
- b) C_{1-8} alkyl,
- c) aryl,
- d) het_1 ,
- e) $\text{C}(=\text{W})\text{R}_{174}$,
- f) $\text{C}(=\text{O})\text{OR}_{175}$, or
- g) $\text{S}(=\text{O})_i\text{R}_{176}$;

R_{173} is

- a) H, or
- b) C_{1-8} alkyl;

R₁₇₄ is

- a) H,
- b) aryl,
- c) het₁,
- d) NR₁₇₇R₁₇₈, or
- e) C₁₋₈ alkyl;

R₁₇₅ is

- a) C₁₋₈ alkyl,
- b) aryl, or
- c) het₁;

R₁₇₆ is

- a) aryl,
- b) het₁,
- c) NR₁₇₇R₁₇₈, or
- d) C₁₋₈ alkyl;

R₁₇₇ and R₁₇₈ are independently

- a) H,
- b) C₁₋₈ alkyl, or
- c) aryl;

R₁₈₀ and R₁₈₁ taken together form C₃₋₅ cycloalkyl;

R₁₈₂ is H, CH₃ or C₁₋₄ alkanoyl;

R₁₈₃ is H, C₁₋₄ alkyl, C₁₋₄ alkanoyl, -C(=O)NH-C₁₋₄ alkyl or -CO₂C₁₋₄ alkyl;

R₁₈₄ is C₁₋₄ alkyl, CH₂OR₁₈₆, S-C₁₋₄ alkyl, OC₁₋₄ alkyl, or NR₁₈₇R₁₈₈;

R₁₈₅ is phenyl, -CO₂-(CH₂)₂-OCH₃, -P(=O)(OH)₂, -C(=O)-NR₁₈₇R₁₈₈, or -C(=O)-(CH₂)₂-CO₂H;

R₁₈₆ is H, phenyl, benzyl, CH₃ or C(=O)CH₃;

R₁₈₇ and R₁₈₈ are independently H or C₁₋₃ alkyl; or R₁₈₇ and R₁₈₈ taken together form a 5- or 6-membered saturated heterocycle, wherein said saturated heterocycle may further contain one or two additional hetero-atoms selected from a group consisting of O, S(O)_n or NR₁₈₂;

R₁₈₉ is H, CH₃ or benzyl;

R₁₉₀ is

- a) H,
- b) C₁₋₄ alkyl,
- c) C(=O)C₁₋₄ alkyl,
- d) C(=O)OC₁₋₄ alkyl,
- e) C(=O)NHR₁₉₁, or
- f) C(=S)NHR₁₉₁;

R₁₉₁ is H, C₁₋₄ alkyl, or phenyl;

at each occurrence, alkyl in R₁₉₀ and R₁₉₁ is optionally substituted with one or more halo, CN, NO₂, phenyl, C₃₋₆ cycloalkyl, OR₁₉₂, C(=O)R₁₉₂, OC(=O)R₁₉₂, C(=O)OR₁₉₂, SC(=O)_iR₁₉₂, S(=O)_iNR₁₉₂R₁₉₂, NR₁₉₂R₁₉₂, NR₁₉₂SO₂R₁₉₂, NR₁₉₂SO₂R₁₉₂R₁₉₂, NR₁₉₂C(=O)R₁₉₂, C(=O)NR₁₉₂R₁₉₂, NR₁₉₂R₁₉₂, oxo or oxime;

R₁₉₂ is H, C₁₋₄ alkyl, or phenyl;

at each occurrence, phenyl in R₁₉₁ and R₁₉₂ is optionally substituted with one or more halo, CN, NO₂, phenyl, C₃₋₆ cycloalkyl, OR₁₉₂, C(=O)R₁₉₂, OC(=O)R₁₉₂, C(=O)OR₁₉₂, S(=O)_iR₁₉₂, S(=O)_iNR₁₉₂R₁₉₂, NR₁₉₂SO₂R₁₉₂, NR₁₉₂SO₂NR₁₉₂R₁₉₂, NR₁₉₂C(=O)R₁₉₂, C(=O)NR₁₉₂R₁₉₂, or NR₁₉₂R₁₉₂;

R₁₉₃ is selected from the group consisting of null, H, C₁-C₄alkyl, C₃-C₅cycloalkyl, C₁-C₄haloalkyl, and halophenyl;

R₁₉₄ is selected from the group consisting of H, alkyl, C₁-C₂alkoxy, halo, and haloalkoxy, or R₁₉₃ and R₁₉₄ can be taken together to form a 5- or 6-membered, optionally substituted, heteroalkyl or heteroaryl ring;

R₁₉₅ is H or F;

R₁₉₆ is selected from the group consisting of H, methyl, amino, and F;

R₁₉₇ is H, CH₃, or F;

B is an unsaturated 4-atom linker having one nitrogen and three carbons;

M is

- a) H,
- b) C₁₋₈ alkyl,
- c) C₃₋₈ cycloalkyl,
- d) -(CH₂)_mOR₁₃, or
- e) -(CH₂)_n-NR₂₁R₂₂;

Z is

- a) O,
- b) S, or
- c) NM;

W is

- a) CH,
- b) N, or
- c) S or O when Z is NM;

Y is

- a) H,
- b) F,
- c) Cl,
- d) Br,
- e) C₁₋₃ alkyl, or
- f) NO₂;

X is

- a) H,
- b) -CN,
- c) OR₂₇,
- d) halo,
- e) NO₂,
- f) tetrazoyl,
- g) -SH,
- h) -S(=O)_iR₄,
- i) -S(=O)₂-N=S(O)_jR₅R₆,
- j) -SC(=O)R₇,
- k) -C(=O)R₂₅,
- l) -C(=O)NR₂₇R₂₈,
- m) -C(=NR₂₉)R₂₅,
- n) -C(R₂₅)(R₂₈)-OR₁₃,
- o) -C(R₂₅)(R₂₈)-OC(=O)R₁₃,
- p) -C(R₂₈)(OR₁₃)-(CH₂)_h-NR₂₇R₂₈,
- q) -NR₂₇R₂₈,
- r) -N(R₂₇)C(=O)R₇,
- s) -N(R₂₇)-S(=O)_iR₇,
- t) -C(OR₁₄)(OR₁₅)R₂₈,
- u) -C(R₂₅)(R₁₆)-NR₂₇R₂₆, or
- v) C₁₋₈ alkyl substituted with one or more halos,
OH, =O other than at alpha position, -S(=O)_iR₁₇,
-NR₂₇R₂₈, C₂₋₅ alkenyl, C₂₋₅ alkynyl, or C₃₋₈
cycloalkyl;

X_1 is N or CR_{158} ;

Y_1 is

- a) $S(O)_i$,
- b) $S(NR_{159})$, or
- c) $S(NR_{159})(O)$;

W_1 is O or S;

X_2 is O or NR_{162} ;

X_3 is $S(O)_i$ or NR_{166} ;

Y_2 is

- a) O
- b) NH,
- c) CH_2 , or
- d) $S(O)_i$;

X_4 is

- a) O
- b) NR_{172} ,
- c) $S(O)_i$, or
- d) $S(O)(NR_{173})$; and

Y_3 is CH or N;

R_4 , R_5 , R_6 , R_7 , R_{13} , R_{14} , R_{15} , R_{16} , and R_{17} are the same as defined above;

R_{25} is

- a) H,
- b) C_{1-8} alkyl optionally substituted with one or more halos, C_{3-8} cycloalkyl, C_{1-4} alkyl substituted with one or more of $-S(=O)_iR_{17}$,

-OR₁₃, or OC(=O)R₁₃, NR₂₇R₂₈, or

- c) C₂₋₅ alkenyl optionally substituted with CHO, or CO₂R₁₃;

R₂₆ is

- a) R₂₈, or
b) NR₂₇NR₂₈;

R₂₇ and R₂₈ at each occurrence are the same or different and are

- a) H,
b) C₁₋₈ alkyl,
c) C₃₋₈ cycloalkyl,
d) -(CH₂)_mOR₁₃,
e) -(CH₂)_n-NR₂₁R₂₂, or
f) R₂₇ and R₂₈ taken together are -(CH₂)₂O(CH₂)₂-,
-(CH₂)_nCH(COR₇)-, or -(CH₂)₂N(CH₂)₂(R₇);

R₂₉ is

- a) -NR₂₇R₂₈,
b) -OR₂₇, or
c) -NHC(=O)R₂₈;

wherein R₃₀ is

- a) H,
b) C₁₋₈ alkyl optionally substituted with one or more halos, or
c) C₁₋₈ alkyl optionally substituted with one or more OH, or C₁₋₆ alkoxy;

wherein E is

- a) NR₃₉,
b) -S(=O)₁,
c) O, or
d) S(O)(NR₁₉₀);

R₃₈ is

- a) H,
- b) C₁₋₆ alkyl,
- c) -(CH₂)_q-aryl, or
- d) halo;

R₃₉ is

- a) H,
- b) C₁₋₆ alkyl optionally substituted with one or more OH, halo, or -CN,
- c) -(CH₂)_q-aryl,
- d) -CO₂R₄₀,
- e) -COR₄₁,
- f) -C(=O)-(CH₂)_q-C(=O)R₄₀,
- g) -S(=O)₂-C₁₋₆ alkyl,
- h) -S(=O)₂-(CH₂)_q-aryl, or
- i) -(C=O)_j-Het;

R₄₀ is

- a) H,
- b) C₁₋₆ alkyl optionally substituted with one or more OH, halo, or -CN,
- c) -(CH₂)_q-aryl, or
- d) -(CH₂)_q-OR₄₂;

R₄₁ is

- a) C₁₋₆ alkyl optionally substituted with one or more OH, halo, or -CN,
- b) -(CH₂)_q-aryl, or
- c) -(CH₂)_q-OR₄₂;

R₄₂ is

- a) H,
- b) C₁₋₆ alkyl,

- c) $-(CH_2)_q$ -aryl, or
 d) $-C(=O)-C_{1-6}$ alkyl;

aryl is

- a) phenyl,
 b) pyridyl, or
 c) naphthyl; a to c optionally substituted with one or more halo, $-CN$, OH , SH , C_{1-6} alkyl, C_{1-6} alkoxy, or C_{1-6} alkylthio;

h is 1, 2, or 3;

i is 0, 1, or 2;

j is 0 or 1, with the proviso that when j is 0, Y_2 is $-CH_2-$;

k is 3, 4, or 5;

l is 2 or 3;

m is 4 or 5;

n is 0, 1, 2, 3, 4, or 5;

p is 0, 1, 2, 3, 4, or 5; with the proviso that n and p together are 1, 2, 3, 4, or 5;

q is 1, 2, 3, or 4;

u is 1 or 2;

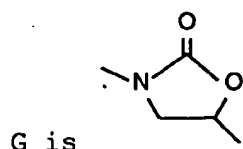
w is 0, 1, 2, or 3;

x is 0, 1, 2, 3 or 4; and

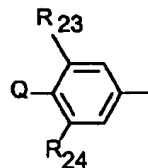
y is 0, 1, 2, 3 or 4; with the proviso that x and y taken together are 3 or 4;

z is 1, 2, 3, 4 or 5, provided that i and z taken together are 2, 3, 4 or 5.

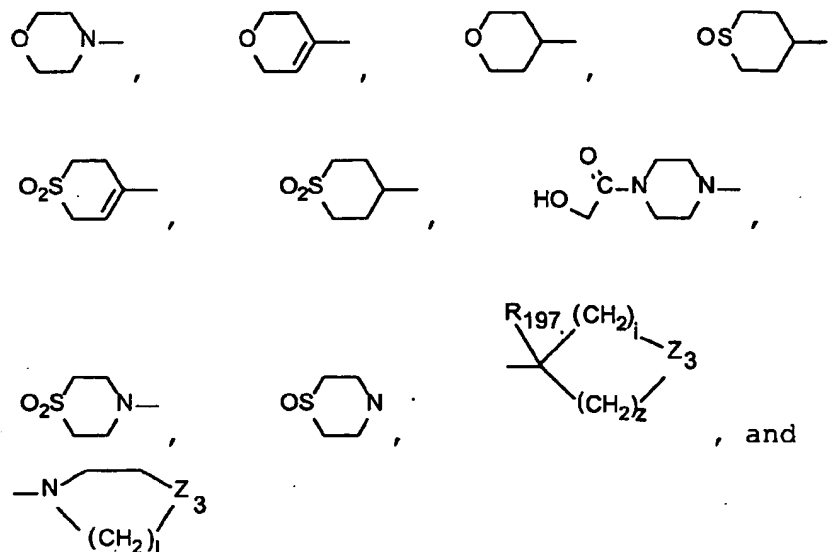
19. The method of Claim 18, wherein



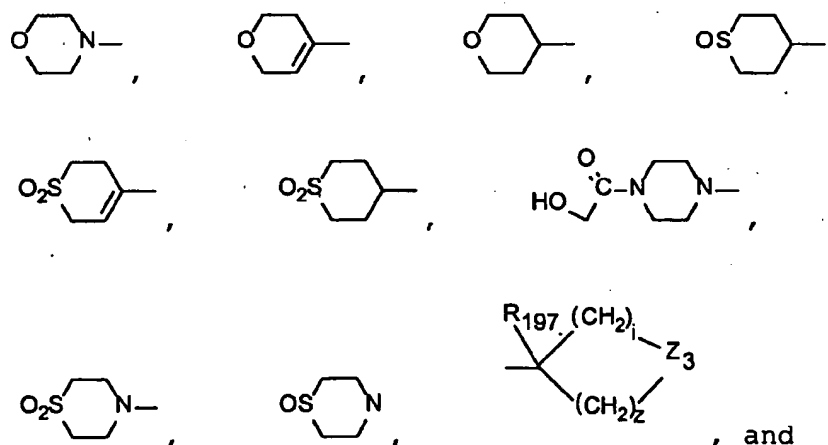
and A is

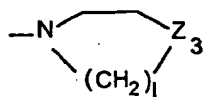


20. The method of Claim 19, wherein R_{23} and R_{24} are each independently H or F and Q is selected from the group consisting of



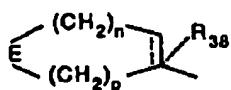
21. The method of Claim 15, wherein R_{23} and R_{24} are each independently H or F and Q is selected from the group consisting of



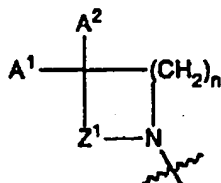


22. The method of Claim 15,
wherein Q is

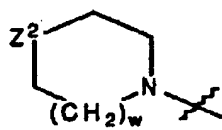
1)



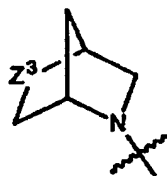
r)



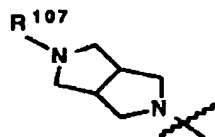
s)

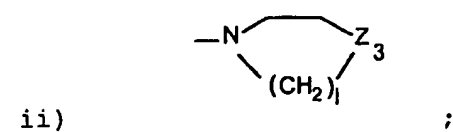
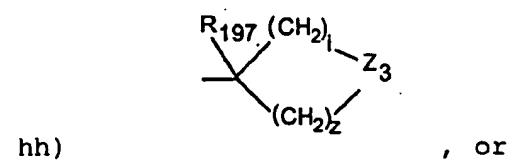
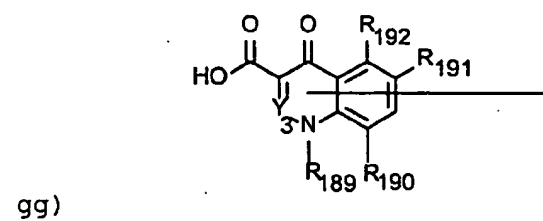
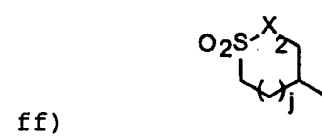
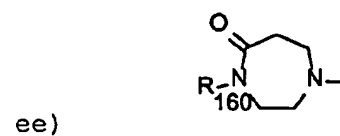
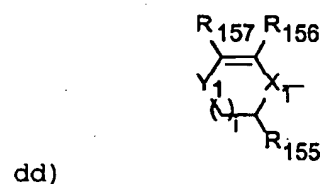
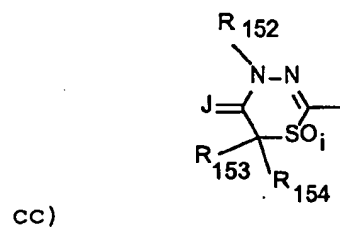


t)

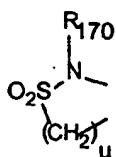
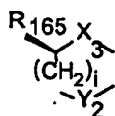


u)

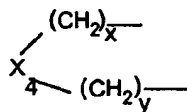




Q and R₂₄ taken together are



, or



wherein A² is

- a) H-,
- b) HO-,
- c) CH₃-,
- d) CH₃O-,
- e) R¹⁰²O-CH₂-C(O)-NH-,
- f) R¹⁰³O-C(O)-NH-,
- g) (C₁-C₂) alkyl-O-C(O)-,
- h) HO-CH₂-,
- i) CH₃O-NH-,
- j) (C₁-C₃) alkyl-O₂C-
- k) CH₃-C(O)-, or
- l) CH₃-C(O)-CH₂-;

wherein R^{106} is

- a) $\text{CH}_3\text{-C(O)-}$,
- b) H-C(O)- ,
- c) $\text{Cl}_2\text{CH-C(O)-}$,
- d) $\text{HOCH}_2\text{-C(O)-}$,
- e) $\text{CH}_3\text{SO}_2\text{-}$,
- g) $\text{F}_2\text{CHC(O)-}$,
- i) $\text{H}_3\text{C-C(O)-O-CH}_2\text{-C(O)-}$,
- j) $\text{H-C(O)-O-CH}_2\text{-C(O)-}$,
- l) $\text{HC}\equiv\text{C-CH}_2\text{O-CH}_2\text{-C(O)-}$, or
- m) $\text{phenyl-CH}_2\text{-O-CH}_2\text{-C(O)-}$;

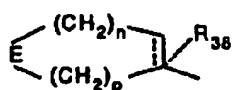
wherein R^{107} is

- a) $\text{R}^{102}\text{O-C(R}^{110})\text{(R}^{111})\text{-C(O)-}$,
- b) $\text{R}^{103}\text{O-C(O)-}$,
- c) $\text{R}^{108}\text{-C(O)-}$,
- f) $\text{H}_3\text{C-C(O)-(CH}_2)_2\text{-C(O)-}$,
- g) $\text{R}^{109}\text{-SO}_2\text{-}$,
- i) $\text{HO-CH}_2\text{-C(O)-}$,
- j) $\text{R}^{116}\text{-(CH}_2)_2\text{-}$,
- k) $\text{R}^{113}\text{-C(O)-O-CH}_2\text{-C(O)-}$,
- l) $\text{(CH}_3)_2\text{N-CH}_2\text{-C(O)-NH-}$,
- m) $\text{NC-CH}_2\text{-}$,
- n) $\text{F}_2\text{-CH-CH}_2\text{-}$, or
- o) $\text{R}^{150}\text{R}^{151}\text{NSO}_2$
- p) $\text{C(O)CR}_{180}\text{R}_{180}\text{R}_{181}\text{OR}_{182}$,
- q) $\text{C(O)CH}_2\text{S(O)}_i\text{CH}_3$,
- r) $\text{C(O)CH}_2\text{S(O)(NR}_{183})\text{CH}_3$,
- s) C(S)R_{184} ,
- t) $\text{C(O)CH}_2\text{OR}_{185}$,

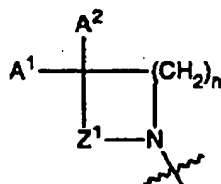
- u) $\text{C}(\text{O})(\text{CH}_2)_3\text{C}(\text{O})\text{CH}_3$,
- v) $\text{C}(\text{O})(\text{CH}_2\text{OH})_2\text{CH}_3$,
- w) $\text{C}(\text{O})\text{CH}_2\text{CH}_2\text{OR}_{189}$, or
- x) $-\text{CN}$.

23. The method of Claim 18, wherein Q is

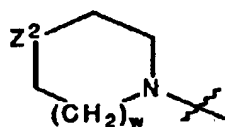
l)



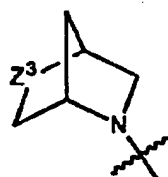
r)



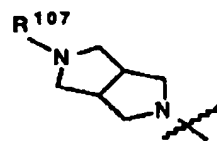
s)

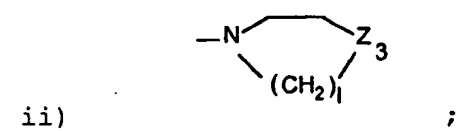
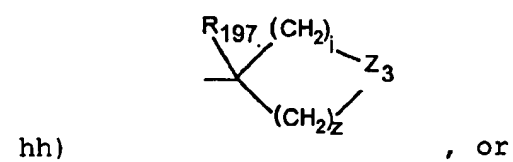
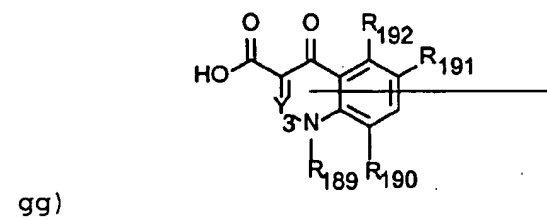
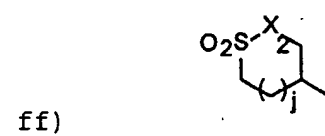
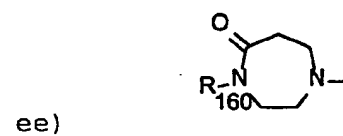
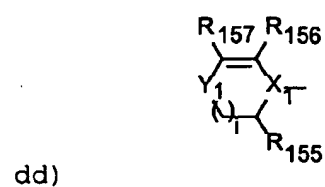
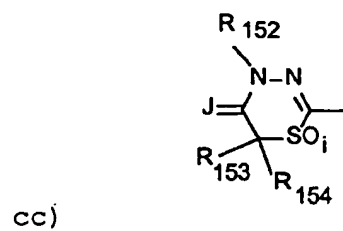


t)

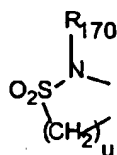
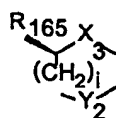
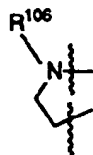


u)

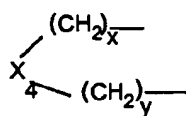




Q and R₂₄ taken together are



, or



wherein A² is

- a) H-,
- b) HO-,
- c) CH₃-,
- d) CH₃O-,
- e) R¹⁰²O-CH₂-C(O)-NH-
- f) R¹⁰³O-C(O)-NH-,
- g) (C₁-C₂) alkyl-O-C(O)-,
- h) HO-CH₂-,
- i) CH₃O-NH-,
- j) (C₁-C₃) alkyl-O₂C-
- k) CH₃-C(O)-, or
- l) CH₃-C(O)-CH₂-;

wherein R^{106} is

- a) $\text{CH}_3\text{-C(O)-}$,
- b) H-C(O)- ,
- c) $\text{Cl}_2\text{CH-C(O)-}$,
- d) $\text{HOCH}_2\text{-C(O)-}$,
- e) $\text{CH}_3\text{SO}_2\text{-}$,
- g) $\text{F}_2\text{CHC(O)-}$,
- i) $\text{H}_3\text{C-C(O)-O-CH}_2\text{-C(O)-}$,
- j) $\text{H-C(O)-O-CH}_2\text{-C(O)-}$,
- l) $\text{HC}\equiv\text{C-CH}_2\text{O-CH}_2\text{-C(O)-}$, or
- m) $\text{phenyl-CH}_2\text{-O-CH}_2\text{-C(O)-}$;

wherein R^{107} is

- a) $\text{R}^{102}\text{O-C(R}^{110})\text{(R}^{111})\text{-C(O)-}$,
- b) $\text{R}^{103}\text{O-C(O)-}$,
- c) $\text{R}^{108}\text{-C(O)-}$,
- f) $\text{H}_3\text{C-C(O)-(CH}_2)_2\text{-C(O)-}$,
- g) $\text{R}^{109}\text{-SO}_2\text{-}$,
- i) $\text{HO-CH}_2\text{-C(O)-}$,
- j) $\text{R}^{116}\text{-(CH}_2)_2\text{-}$,
- k) $\text{R}^{113}\text{-C(O)-O-CH}_2\text{-C(O)-}$,
- l) $\text{(CH}_3)_2\text{N-CH}_2\text{-C(O)-NH-}$,
- m) $\text{NC-CH}_2\text{-}$,
- n) $\text{F}_2\text{-CH-CH}_2\text{-}$, or
- o) $\text{R}^{150}\text{R}^{151}\text{NSO}_2$
- p) $\text{C(O)CR}_{180}\text{R}_{180}\text{R}_{181}\text{OR}_{182}$,
- q) $\text{C(O)CH}_2\text{S(O)}_i\text{CH}_3$,
- r) $\text{C(O)CH}_2\text{S(O)(NR}_{183})\text{CH}_3$,
- s) C(S)R_{184} ,
- t) $\text{C(O)CH}_2\text{OR}_{185}$,
- u) $\text{C(O)(CH}_2)_j\text{C(O)CH}_3$,
- v) $\text{C(O)(CH}_2\text{OH)}_2\text{CH}_3$,
- w) $\text{C(O)CH}_2\text{CH}_2\text{OR}_{189}$, or
- x) -CN .

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(54) Title: AMIDE-CONTAINING COMPOUND HAVING IMPROVED SOLUBILITY AND METHOD OF IMPROVING THE SOLUBILITY OF AN AMIDE-CONTAINING COMPOUND

(57) Abstract:

PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rules 13ter.1(c) and Rule 39)

Applicant's or agent's file reference P&U00429PCT	IMPORTANT DECLARATION	Date of mailing(day/month/year) 18/11/2002
International application No. PCT/US 02/ 22526	International filing date(day/month/year) 12/07/2002	(Earliest) Priority date(day/month/year) 12/07/2001
International Patent Classification (IPC) or both national classification and IPC		
Applicant PHARMACIA & UPJOHN COMPANY		

This International Searching Authority hereby declares, according to Article 17(2)(a), that **no International search report will be established** on the international application for the reasons indicated below

1. ☐ The subject matter of the international application relates to:
 - a. ☐ scientific theories.
 - b. ☐ mathematical theories
 - c. ☐ plant varieties.
 - d. ☐ animal varieties.
 - e. ☐ essentially biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
 - f. ☐ schemes, rules or methods of doing business.
 - g. ☐ schemes, rules or methods of performing purely mental acts.
 - h. ☐ schemes, rules or methods of playing games.
 - i. ☐ methods for treatment of the human body by surgery or therapy.
 - j. ☐ methods for treatment of the animal body by surgery or therapy.
 - k. ☐ diagnostic methods practised on the human or animal body.
 - l. ☐ mere presentations of information.
 - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art.

2. ☒ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:

☒ the description
☒ the claims
☐ the drawings

3. ☐ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:

☐ the written form has not been furnished or does not comply with the standard.

☐ the computer readable form has not been furnished or does not comply with the standard.

4. Further comments:

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Véronique Baillou
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 203

All present compound claims relate to an extremely large number of possible compounds. In fact, all of the compound claims contain so many options, variables, possible permutations and provisos that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a complete search of the claims impossible. It is noted that the application is directed towards improving the solubility of amides. The true disclosure in the application is much smaller in scope and only appears to be directed towards the production of new oxazolidinone derivatives (I). There is no information in the file showing that any of the new compounds are actually more soluble and it is not clear what the improved solubility is for. The comment on page 6 that improved bioavailability is obtained is only relevant in connection with a specific activity for which improved bioavailability is desirable and can be shown. Page 43 specifies that microbial infections can be treated, but in the light of pages 5-6 it is not clear if this the only activity or merely the preferred one. The claims do not clarify this point.

In summary the claimed subject matter is very large in scope, is an unreasonable generalisation of the examples and it is unclear from the application what the prior art is and what contribution the current application is trying to make to it. There is no precise indication in the application as to the structural nature of the known amides whose solubility is said to have been improved. End products are claimed whereby it is (e.g. in claim 1) fully unclear what the novel structural component is i.e. in order to increase solubility the applicant has presumably modified amides, but it is not clear which ones. Process claim 15 indicates that amides (III) can be converted to end products (VIII) and pages 46-47 confirm that the amide (III) is converted into the prodrug (VIII). It is however noted that (VIII) is far smaller in scope than (I) so it is unclear how compounds (I) which do not fall under (VIII) can be produced and whether or not amides throughout the application is limited to the compounds (III). The preamble of claim 15 refers to oxazolidinone derivatives, but the claim is not limited thereto when G is other than the second claimed possibility.

Given all of these objections no search report can be established for the present application.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.